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R. EGLESFELD GRIFFITH, M. D.

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THE HISTORY OF THE

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A.

# UNIVERSAL FORMULARY:

CONTAINING THE METHODS OF

PREPARING AND ADMINISTERING

OFFICINAL AND OTHER MEDICINES.

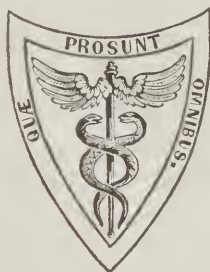
THE WHOLE ADAPTED TO

PHYSICIANS AND PHARMACEUTISTS.

BY

R. EGLESFELD GRIFFITH, M.D.

*Selecta sunt quæ medicum nobilitant.*—LINNÆUS



PHILADELPHIA:  
LEA AND BLANCHARD.

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## P R E F A C E.

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THE design of this work is to present a compendious collection of formulæ and pharmaceutic processes, with such additional information as may render it useful to the physician and apothecary; and the principal aim has been to select materials most generally applicable, and of practical utility. The sources from which they have been derived are very numerous, as will be seen by a reference to the various authorities cited.

The introduction contains tables and observations on the weights and measures employed for pharmaceutical purposes in the United States and in foreign countries, and an explanation or vocabulary of the principal abbreviations and Latin terms used by physicians in writing prescriptions, followed by observations on the management of the sick-room, with rules for the administration of the different classes of medicines.

The formulary is arranged alphabetically, according to the pharmaceutic names adopted in the United States Pharmacopœia; but in each formula, the English appellations for the articles composing it are used, and the quantities of these ingredients are expressed in words, and not in the usual pharmaceutic signs.

These innovations may, and probably will, be objected to by many; but we feel convinced that a change has become requisite, and that fewer mistakes would be committed by physicians in writing prescriptions, both in the names of the ingredients and in the quantities, were they given at length, and in common language, instead of in the abbreviated cabalistic terms now used. In France this change has been made, and it is full time that other countries should follow her example.

In this portion of the work, the compiler has derived much important assistance from several of his friends, and is under great obligation to Mr. Wm. Procter, Jr., for numerous formulæ and many useful suggestions. He, also, is much indebted to Dr. Robert Bridges for his attentive revision of the sheets, as well as for some important corrections.

The various tables which follow, it is hoped, will add to the value of the work. The observations and directions on officinal preparations are given in as concise a form as possible; and are, for the most part, condensed from the excellent edition of *Mohr and Redwood's Pharmacy*, as edited by Mr. Wm. Procter. To this is added a short view of the action of poisons, with the best means of obviating their effects.

To facilitate a reference to the contents of the work, copious indices have been added, not only of the formulæ, but of the diseases for which they have been advised.

Notwithstanding the care with which the sheets have been revised, a few typographical errors have escaped notice; but, so far as observed, they are of but little consequence. Should any important ones be noticed, or any articles of practical utility have been omitted, the author would be pleased to be informed of them, that they may be noticed in a new edition, should one be called for.

In the botanical portion, the author has been obliged to cite, in almost every instance, his "Medical Botany." This has arisen from the fact, that no other work of a general character on medicinal plants has been issued from the American press.

PHILADELPHIA,  
March, 1850.



TO

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PROFESSOR OF MATERIA MEDICA AND PHARMACY IN THE UNIVERSITY OF PENNSYLVANIA, ETC.

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AUTHORS OF

“THE DISPENSATORY OF THE UNITED STATES OF AMERICA,”

THIS WORK

IS RESPECTFULLY DEDICATED,

BY THEIR FRIEND,

R. E. G.



# TABLE OF CONTENTS.

---

	PAGE
PREFACE . . . . .	vii
INTRODUCTION . . . . .	9
WEIGHTS AND MEASURES . . . . .	9
Weights of the United States and Great Britain . . . . .	9
Foreign Weights . . . . .	12
Measures . . . . .	16
SPECIFIC GRAVITY . . . . .	20
TEMPERATURES FOR CERTAIN PHARMACEUTICAL OPERATIONS . . . . .	26
HYDROMETRICAL EQUIVALENTS . . . . .	26
SPECIFIC GRAVITIES OF SOME OF THE PREPARATIONS OF THE PHARMACOPEIAS . . . . .	31
RELATION BETWEEN DIFFERENT THERMOMETRICAL SCALES . . . . .	32
EXPLANATION OF PRINCIPAL ABBREVIATIONS USED IN FORMULE . . . . .	33
VOCABULARY OF WORDS EMPLOYED IN PRESCRIPTIONS . . . . .	34
OBSERVATIONS ON THE MANAGEMENT OF THE SICK ROOM . . . . .	45
Ventilation of the Sick Room . . . . .	45
Temperature of the Sick Room . . . . .	46
Cleanliness in the Sick Room . . . . .	46
Quiet in the Sick Room . . . . .	47
Examination and Preservation of the Excretions . . . . .	47
Administration of Medicine . . . . .	47
Furniture of a Sick Room . . . . .	48
Proper use of Utensils for Evacuations . . . . .	49
DOSES OF MEDICINES . . . . .	50
Age . . . . .	50
Sex . . . . .	51
Temperament . . . . .	51
Idiosyncrasy . . . . .	51
Habit . . . . .	51
State of the System . . . . .	51
Time of Day . . . . .	52
Intervals between Doses . . . . .	52
RULES FOR ADMINISTRATION OF MEDICINES . . . . .	53
Acids . . . . .	53
Antacids . . . . .	53
Antilithics and Lithontriptics . . . . .	54
Antispasmodics . . . . .	54

	PAGE
Anthelmintics . . . . .	54
Cathartics . . . . .	55
Enemata . . . . .	55
Suppositories . . . . .	56
Demulcents or Emollients . . . . .	56
Diaphoretics . . . . .	57
Diluents . . . . .	57
Diuretics . . . . .	57
Emetics . . . . .	57
Emmenagogues . . . . .	58
Epispastics . . . . .	58
Errhines . . . . .	60
Escharotics . . . . .	60
Expectorants . . . . .	60
Narcotics . . . . .	61
Refrigerants . . . . .	61
Sedatives . . . . .	61
Sialagogues . . . . .	61
Stimulants . . . . .	62
Tonics . . . . .	62
MANAGEMENT OF CONVALESCENCE AND RELAPSES . . . . .	63
UNIVERSAL FORMULARY . . . . .	65
DIETETIC PREPARATIONS NOT INCLUDED AMONG THE PREVIOUS PRESCRIPTIONS . . . . .	417
LIST OF INCOMPATIBLES . . . . .	422
POSOLOGICAL TABLE OF THE MOST IMPORTANT MEDICINES . . . . .	426
TABLE OF PHARMACEUTICAL NAMES WHICH DIFFER IN THE UNITED STATES AND BRITISH PHARMACOPŒIAS . . . . .	433
OFFICINAL PREPARATIONS AND DIRECTIONS . . . . .	446
INTERNAL REMEDIES . . . . .	446
Powders . . . . .	446
Pills and Boluses . . . . .	447
Extracts . . . . .	448
Confections, Conserves, Electuaries . . . . .	449
Pulps . . . . .	450
Syrups . . . . .	450
Mellites or Honeys . . . . .	451
Infusions . . . . .	451
Decoctions . . . . .	451
Tinctures . . . . .	451
Wines . . . . .	453
Vinegars . . . . .	454
Mixtures . . . . .	454
Medicated Waters . . . . .	455
Distilled, Essential, or Volatile Oils . . . . .	456
Fixed Oils and Fats . . . . .	460
Alkaloids . . . . .	461
Spirits . . . . .	461



	PAGE
Troches or Lozenges . . . . .	462
Inhalations . . . . .	462
EXTERNAL REMEDIES . . . . .	462
Baths . . . . .	462
Cold Bath . . . . .	463
Cool Bath . . . . .	463
Temperate Bath . . . . .	463
Tepid Bath . . . . .	463
Warm Bath . . . . .	463
Hot Bath . . . . .	464
Shower Bath . . . . .	464
Local Baths . . . . .	465
Vapor Bath . . . . .	465
Warm Air Bath . . . . .	465
Douches . . . . .	465
Medicated Baths . . . . .	466
Afusion . . . . .	466
Sponging . . . . .	467
Fomentations . . . . .	468
Cataplasms, or Poultices . . . . .	468
Lotions, Liniments, Embrocations . . . . .	469
Vesicatorics, or Blisters . . . . .	470
Issues . . . . .	470
Setons . . . . .	471
Ointments . . . . .	471
Cerates . . . . .	471
Plasters . . . . .	472
Fumigations . . . . .	472
BLOOD-LETTING . . . . .	474
General Blood-letting . . . . .	474
Venesection . . . . .	474
Arteriotomy . . . . .	476
Topical Blood-letting . . . . .	476
Cupping . . . . .	476
Leeching . . . . .	477
Scarifications . . . . .	478
POISONS . . . . .	479
INDEX OF DISEASES AND THEIR REMEDIES . . . . .	495
INDEX OF PHARMACEUTICAL AND BOTANICAL NAMES . . . . .	511
GENERAL INDEX . . . . .	519



# INTRODUCTION.

BEFORE entering upon the main object of the work, some introductory observations are required, on the forms in which remedial substances are administered, the processes to be pursued in their preparation, and on the weights and measures employed in the proper apportionment of the ingredients, and in the regulation of the doses to be administered.

## WEIGHTS AND MEASURES.

These vary much in different countries, and even in the same country. Thus, in Great Britain and the United States, there are three standards of weight recognized and employed: the Avoirdupois, the Troy, and the Apothecaries.

### WEIGHTS OF THE UNITED STATES AND GREAT BRITAIN.

#### AVOIRDUPOIS WEIGHT.

This is the common standard employed in the selling or buying of such articles as are measured by weight, and is also in use among apothecaries in this country, except in the compounding and dispensing of medicines.

	Equal to troy grains.
1 drachm - - - - -	27.34375
16 = 1 ounce - - - - -	437.5
256 = 16 = 1 pound - - - - -	7000.
3584 = 224 = 14 = 1 stone - - - - -	98000.
28672 = 1792 = 112 = 8 = 1 hundred weight - - - - -	784000.
473440 = 35840 = 2240 = 160 = 20 = 1 ton - - - - -	15680000.

In weighing many articles, what is called the short ton, or 2000 pounds, is employed

#### TROY WEIGHT

Is used in the sale of gold, silver, platina, and precious stones.

1 grain
24 = 1 pennyweight
480 = 20 = 1 ounce
5760 = 240 = 12 = 1 pound.

The following are the relative proportions between the troy and the avoirdupois:—  
One pound troy is equivalent to 0.822857 pound avoirdupois, or 13 ounces, 2 drachms, 1 scruple, 9.5 grains.

One ounce troy is equivalent to 1 ounce, 1 drachm, 1 scruple, 6.225 grains avoirdupois.

One pound avoirdupois is equivalent to 1.21577 pound troy, or 1 pound, 2 ounces, 4 drachms, and 2 scruples.

One ounce avoirdupois is equivalent to 7 drachms, 17.5 grains troy.

144 pounds avoirdupois are equivalent to 175 pounds troy.

175 ounces troy are equivalent to 192 ounces avoirdupois.

The following table of equivalents in troy and avoirdupois weight, derived from Redwood's edition of Gray's Supplement to the Pharmacopœia, will be found useful in making these calculations.

## EQUIVALENTS IN TROY AND AVOIRDUPOIS WEIGHT.

Troy grains.	TROY.				AVOIRDUPOIS.		
	lbs.	oz.	drs.	grs.	lbs.	oz.	grs.
60			1				60
120			2				120
240			4				240
437.5			7	17.5		1	
480		1				1	42.5
875		1	6	35		2	
960		2				2	85
1312.5		2	5	52.5		3	
1440.		3				3	127.5
1750.		3	5	10		4	
1920.		4				4	170
2187.5		4	4	27.5		5	
2400		5				5	212.5
2625.0		5	3	45.		6	
2880.		6				6	255
3062.5		6	3	2.5		7	
3360		7				7	297.5
3500		7	2	20.		8	
3840		8				8	340
3937.5		8	1	37.5		9	
4320.		9				9	382.5
4375.		9	0	55.		10	
4800		10				10	425
4812.5		10		12.5		11	
5250		10	7	30.		12	
5280		11				12	30
5687.5		11	6	47.5		13	
5760.	1	12				13	72.5
6125.	1	0	6	5.		14	
6562.5	1	1	5	22.5		15	
7000	1	2	4	40.	1	16	
7680	1	4			1	1	242.5
9600	1	8			1	5	422.5
10500	1	9	7		1	8	
11520	2				1	10	145
14000	2	5	1	20	2		
17280	3				2	7	217.5
21000	3	7	6	0	3		
23040	4				3	4	290
28000	4	10	2	40	4		
28800	5				4	1	362.5
34560	6				4	14	435
35000	6	0	7	20	5		
40320	7				5	12	70
42000	7	3	4	0	6		
46080	8				6	9	142.5
49000	8	6	0	40	7		
51840	9				7	6	215
56000	9	8	5	20	8		
57600	10				8	3	287.5
63000	10	11	2	0	9		



Troy grains.	TROY.				AVOIRDUPOIS.		
	lbs.	oz.	drs.	grs.	lbs.	oz.	grs.
63360	11				9	0	360
69120	12				9	13	432.5
70000	12	1	6	40	10		
74880	13				10	11	67.5
77000	13	4	3	20	11		
80640	14				11	8	140
84000	14	7	0	0	12		
86400	15				12	5	212.5
91000	15	9	4	40	13		
92160	16				13	2	285
97920	17				13	15	357.5
98000	17	0	1	20	14		
103680	18				14	12	430
105000	18	2	6	0	15		
109440	19				15	10	65
112000	19	5	2	40	16		
115200	20				16	7	137.5
119000	20	7	7	20	17		
120960	21				17	4	210
126000	21	10	4	0	18		
126720	22				18	1	282.5
132480	23				18	14	355
133000	23	1	0	40	19		
138240	24				19	11	427.5
140000	24	3	5	20	20		
144000	25				20	9	62.5
147000	25	6	2	0	21		
149760	26				21	6	135
154000	26	8	6	40	22		
155520	27				22	3	207.5
161000	27	11	3	20	23		
161280	28				23	0	280
167040	29				23	13	352.5
168000	29	2	0	0	24		
172800	30				24	10	425
175000	30	4	4	40	25		
178560	31				25	8	59
182000	31	7	1	20	26		
184320	32				26	5	131.5
189000	32	9	6	0	27		
190080	33				27	2	204
195840	34				27	15	276.5
196000	34	0	2	40	28		
201600	35				28	12	149
203000	35	2	7	20	29		
207360	36				29	9	421.5
210000	36	5	4	0	30		
230400	40				32	14	275
280000	48	7	2	40	40		
288000	50				41	2	125
345600	60				49	5	412.5
350000	60	9	1	20	50		
403200	70				57	9	262.5
420000	72	11	0	0	60		

Troy grains.	TROY.				AVOIRDUPOIS.		
	lbs.	oz.	drs.	grs.	lbs.	oz.	grs.
460800	80				65	13	113
490000	85	0	6	40	70		
518400	90				74	0	400.5
560000	97	2	5	20	80		
576000	100				82	4	250.5
630000	109	4	4	0	90		
645120	112				92	2	245
700000	121	6	2	40	100		
784000	136	1	2	40	112		

When applied to the compounding or dispensing of medicines, this standard of weight is known as Apothecaries' weight, and differs from the last in the subdivision of the ounce.

#### APOTHECARIES' WEIGHT.

1 grain  
 20 = 1 scruple  
 60 = 3 = 1 drachm  
 480 = 24 = 8 = 1 ounce  
 3760 = 288 = 96 = 12 = 1 pound.

To designate these divisions, the following marks are generally used in prescriptions: a grain, gr.; a scruple,  $\mathfrak{s}$ ; a drachm,  $\mathfrak{d}$ ; an ounce,  $\mathfrak{z}$ ; a pound,  $\mathfrak{lb}$ .

#### FOREIGN WEIGHTS.

FRANCE.—Anterior to the French Revolution of 1789, the scale of weight used was the *poids de marc*, the unit of which was the pound of Charlemagne, which was equivalent to 7561 troy grains, and was divided as follows:

#### POIDS DE MARC.

						Troy grains.	Grammes.
1 grain	-	-	-	-	-	= 0.8203	= 0.0531
24 = 1 scruple	-	-	-	-	-	= 19.687	= 1.274
72 = 3 = 1 gros	-	-	-	-	-	= 59.070	= 3.824
576 = 24 = 8 = 1 once	-	-	-	-	-	= 472.542	= 30.594
4608 = 192 = 64 = 8 = 1 marc	-	-	-	-	-	= 3780.500	= 244.750
6612 = 288 = 96 = 12 = 1 livre medicinal	-	-	-	-	-	= 5670.750	= 367.125
9216 = 384 = 128 = 16 = 1 livre marchand or poids de marc	-	-	-	-	-	= 7561.000	= 489.500

When the decimal system was introduced by the National Assembly, a new series of measures was adopted, termed the metrical, in which the *metre*, or the ten-millionth part of a quarter of the meridian of the earth, is taken as the unit; this is divided into ten parts, each of which is called a *decimetre*, which in turn is divided into ten *centimetres*. A cubic decimetre is assumed as the unit of measures of capacity, and termed a *litre*. The unit of weight is called a *gramme*, and is a cubic centimetre of distilled water at 39.5 Fahr.

#### METRICAL WEIGHT.

						Troy grains.
1 milligramme	-	-	-	-	-	= .015444
10 = 1 centigramme	-	-	-	-	-	= .15444
100 = 10 = 1 decigramme	-	-	-	-	-	= 1.5444
1000 = 100 = 10 = 1 gramme	-	-	-	-	-	= 15.444
10000 = 1000 = 100 = 10 = 1 decagramme	-	-	-	-	-	= 154.44
100000 = 10000 = 1000 = 100 = 10 = 1 hectogramme	-	-	-	-	-	= 1544.4
1000000 = 100000 = 10000 = 1000 = 100 = 10 = 1 kilogram.	-	-	-	-	-	= 15444.

This system of weights, although adopted by the scientific men of France, was not favorably received by the people generally, who obstinately adhered to the old system of the *poids de marc*; and, although many stringent laws were passed, from time to time, to render the metrical system obligatory, the government in 1812 was forced to make an attempt to amalgamate the two systems, by altering the *livre*, and making it equal to half a kilogramme, assuming this as the unit, and calculating the other divisions from it, according to the old nomenclature. The following table shows the equivalent of the two scales and of avoirdupois:—

## FRENCH WEIGHTS OF 1812.

French weights of 1812.	Metrical weight grammes.	lb.	English avoirdupois.		
			oz.	dr.	grains.
1 livre	= 500	= 1	1	10	11.07
$\frac{1}{2}$ "	= 250	=	8	13	5.53
$\frac{1}{4}$ "	= 125	=	4	6	16.18
2 once	= 62.5	=	2	3	8.9
1 "	= 31.25	=	1	1	17.71
$\frac{1}{2}$ "	= 15.625	=		8	22.52
2 gros	= 7.812	=		4	11.26
1 "	= 3.906	=		2	5.63
$\frac{1}{2}$ "	= 1.9021	=		1	2.81
1 grain	= 0.0542	=			0.90

The adoption of this system was not made obligatory upon the pharmaciens by law until the year 1827; and indeed it appears never to have been generally adopted, the greatest confusion having prevailed with regard to the weights and measures used in the preparation of medicine, as well as in commerce generally, up to the year 1840. In July, 1837, a law was passed which definitively abolished the use of all other weights and measures, excepting those of the metrical or decimal system, from and after August, 1840. The METRICAL WEIGHT, therefore, is now the only one permitted to be used throughout France.

The exact proportion of troy weight to the metrical standard has never been fully and exactly ascertained. In the table previously given, the kilogramme has been considered as equivalent to 15444 grains troy, which is the usual estimation of it. Francœur, however, estimates the pound troy as equal to 392.9986 grammes; Matthieu, Legendre, and Duborg, as equal to 373.0956 grammes; Chelius and Houschild to 373.243 grammes. But the most correct estimation appears to be that of Lochman, who considers 9216 grains poid de marc as equivalent to 7555 grains troy; the pound troy as equal to 7026.320 grains marc; and the kilogramme as equal to 15434 grains troy. The subjoined tables are calculated on this estimation:—

## VALUE OF TROY WEIGHT IN METRICAL WEIGHT.

One pound	-	-	-	= 373.202	grammes
One ounce	-	-	-	= 31.10017	"
One drachm	-	-	-	= 3.887521	"
One scruple	-	-	-	= 1.295840	"
One grain	-	-	-	= 0.06479201	"

## VALUE OF TROY WEIGHT IN MARC WEIGHT.

One pound	= 12 ounces,	1 drachm,	42.33	grains
One ounce	= 1 ounce		9.53	"
One drachm	=	1 "	1.19	"
One scruple	=		24.40	"
One grain	=		1.2203	"

The other European States differ much in their medicinal weights from the troy standard; but it is superfluous to examine each in detail, the following synopsis and table being sufficient to show the variations.

1. The medicinal pound, except in Turkey, and by the old poids de marc, is in all of them divided into 12 ounces.

2. In all of them, the ounce is divided into 8 drachms, except in Naples, where it contains 10.

3. In all, the ounce is divided into 3 scruples.

4. But the value of the scruple differs. It is composed of 24 grains at Bologna, Coni, Lucca, Modena, Parma, Rome, and in Spain, France, Portugal, Tuscany, and Sardinia.

Of 20 grains in Great Britain, the United States, Austria, Bavaria, Holland, Poland, Prussia, and Sweden; at Lubeck, Naples, Nuremberg, and Venice.

5. Consequently, the pound consists of

5760 grains in the United States, Great Britain, Austria, Bavaria, Holland, Poland, Prussia, and Sweden; at Lubeck, Nuremberg, Naples, and Venice.

6400 grains in Turkey.

6912 grains in Spain, Portugal, Tuscany, Sardinia, Bologna, Lucca, Modena, Parma, Rome, and Coni.

7200 grains at Naples.

9216 grains in France by the poids de marc.

The subjoined table shows the differential values between the troy weight and the medicinal weights of the countries of Europe calculated in grains:—

COUNTRIES, &c.	Value of the pound, 5760 grains.	Value of the ounce, 480 grains.	Value of the drachm, 60 grains.	Value of the scruple, 20 grains.	Value of the grain.
Austria <sup>(1)</sup> . .	5118.09	426.51	53.31	17.77	0.89
Bavaria <sup>(2)</sup> . .	5971.23	497.60	62.20	20.73	1.04
Bologna . . .	7920.93	660.08	82.51	27.50	1.38
Coni . . . .	8392.40	699.37	87.42	29.14	1.46
Corte . . . .	7807.42	650.62	81.33	27.11	1.36
Holland <sup>(3)</sup> . .	5732.38	477.70	59.71	19.90	1.00
Lubeck . . .	5823.60	485.30	60.66	20.22	1.01
Lucca . . . .	7711.73	642.64	80.33	26.78	1.34
Modena . . .	7576.80	631.40	78.92	26.31	1.32
Monticelli <sup>(4)</sup> .	8334.64	694.55	86.82	28.94	1.45
Naples <sup>(5)</sup> . .	8377.11	698.09	87.26	29.09	1.46
Nuremberg <sup>(6)</sup> .	6007.22	500.60	62.58	20.86	1.04
Parma <sup>(7)</sup> . .	7864.55	655.38	81.92	27.31	1.37
Piacenza <sup>(8)</sup> . .	8124.20	677.02	84.63	28.21	1.41
Poland . . .	5996.04	499.67	62.46	20.82	1.04
Portugal . . .	7494.62	624.55	78.07	26.02	1.30
Prussia <sup>(9)</sup> . .	6128.12	510.68	63.83	21.28	1.06
Rome . . . .	7607.72	633.98	79.25	26.42	1.32
Spain . . . .	7475.46	622.96	77.87	25.96	1.30
Sweden . . .	6034.48	502.87	62.86	20.95	1.05
Turin . . . .	7770.71	647.56	80.94	26.98	1.35
Turkey . . .	7436.78	619.73	77.47	25.82	1.29
Tuscany . . .	7597.21	633.10	79.14	26.38	1.32
Venice . . .	7136.23	594.69	74.34	24.78	1.24

(1) This weight is used in Austria Proper, Bohemia, Moravia, Hungary, Transylvania, Tyrol, and the Lombardo-Venetian kingdom, with the exception of the city of Venice.

(2) This weight has been adopted in Greece.

(3) This weight is also used in Belgium.

(4) Monticelli, Castelvetro, and Polcinese.

(5) Kingdom of the Two Sicilies.

(6) This weight is no longer used in Nuremberg; this city, being now incorporated in the kingdom of Bavaria, has adopted the Bavarian standard. But the Nuremberg weight is still extensively used in Germany and other countries. In Germany, we find it in the duchies of Saxe-

The value of these various pounds in grammes is thus calculated by Jourdain :—

The pound of 5760 grains.			
Venice	- - - = 301.230	grammes	Piacenza - - - = 317.577 grammes
Prussia	- - - = 350.761	"	Bologna - - - = 325.665 "
Sweden	- - - = 356.227	"	Soragna - - - = 325.800 "
Nuremberg	- - - = 357.843	"	Parma - - - = 328.000 "
Poland	- - - = 358.510	"	Corte - - - = 330.400 "
Bavaria	- - - = 360.000	"	Turin - - - = 331.961 "
Lubeck	- - - = 369.126	"	Lucca - - - = 334.500 "
United States and } Great Britain }	= 373.202	"	Rome - - - = 339.073 "
Holland	- - - = 375.000	"	Tuscany - - - = 339.542 "
Austria	- - - = 420.009	"	Modena - - - = 340.457 "
The pound of 6400 grains.			Portugal - - - = 344.190 "
Turkey	- - - = 321.317	"	Spain - - - = 345.072 "
The pound of 6912 grains.			The pound of 7200 grains.
Coni	- - - = 307.370	"	Naples - - - = 320.230 "
Monticelli	- - = 307.370	"	The pound of 9216 grains.
			France - - - = 489.503 "

### LIQUID MEASURES OF THE UNITED STATES AND GREAT BRITAIN.

The liquid measures employed by the apothecaries in the United States and Ireland, are the wine gallon and its sub-divisions.

Altenburg, and of Anhalt Bernburg; grand duchy of Baden; city of Bremen; duchies of Brunswick, Saxe Meiningen, and Saxe Coburg Gotha; cities of Frankfort-on-the-Maine and Hamburg; kingdom of Hanover; electorate of Hesse, grand duchy of Hesse, landgraviate of Hesse Homburg; principality of Hohenzollern Sigmaringen; duchy of Nassau; grand duchy of Oldenburg; principalities of Reuss-Plauen and Reuss-Schleitz, of Schwartzburg-Rudolstadt, and Schwartzburg-Sonderhausen; duchy of Sleswick-Holstein; principality of Waldeck; grand duchy of Saxe-Weimar; and kingdom of Wirtemberg.

The Nuremberg standard is also adopted in Denmark, Norway, Finland, Russia, and Switzerland.

(7) Parma, Borgo San-Donnino, Pellegrino, San-Secondo, Fontanellato, and Bussetto.

(8) Piacenza, Fiorenzola, and Carpaneta.

(9) This standard has been adopted in the kingdom of Saxony, the principalities of Lippe-Detmold and Lippe-Schaumburg, and the duchy of Anhalt-Dessau. It differs so little from those of Anhalt-Coethen and the grand duchies of Mecklenburg-Schwerin and Mecklenburg-Strelitz, that the standard of these three territories may be considered identical with that of Prussia.

This table needs hardly any explanation: it will enable the pharmacist—in all cases of foreign formulæ—to calculate the foreign weight in troy weight; thus, *e.g.*—one grain troy being equal to 0.89 grain of Austria—the value of one grain Austrian weight in troy weight may be readily ascertained by a simple rule of three example:—

$$\begin{array}{l}
 0.89 : 1 :: 1 \\
 1 \times 1 = \times 1 = 0.100 \\
 0.89)0.100(1.1235
 \end{array}$$

89

110

89

210

178

320

267

530

445



## WINE MEASURE.

1 minim					
60 =	1 fluidrachm	-	-	=	0.2254 cubie inches.
480 =	8 = 1 fluidounce	-	-	=	1.8047 "
7680 =	128 = 16 = 1 pint	-	-	=	28.875 "
61440 =	1024 = 128 = 8 = 1 gallon	-	-	=	231 "

For a long time, the Royal Colleges of Physicians in England, Scotland, and Ireland declined to recognize the use of measures in preparing and dispensing medicines, on the ground that the varying densities of different fluids rendered it difficult to use one common measure for all without risk of serious errors. But as druggists and medical practitioners constantly employed measures, in defiance of the prohibition, and as the practice, besides being attended with great and obvious convenience, was found to be less fraught with danger than had been conceived, the London College in the first instance, and subsequently the other colleges also, recognized a system of measures of their own, founded on the standard measures of the country. The Colleges of London and Edinburgh, adopting the imperial pint of 1826 as the basis, divide it into twenty parts, called fluidounces; each of which corresponds exactly with an avoirdupois ounce of distilled water at 62° F. and 30° B., and therefore contains 437.5 grains troy. The fluidounce is subdivided into eight parts of 54.6875 grains, termed fluidrachms; and each of these consists of sixty parts, called minims, which therefore amount each in weight to 0.91146 troy grain of distilled water.

The last edition of the Dublin Pharmacopœia having been published immediately before the passing of the Act of 1826, the imperial standard measures could not be adopted in that work as the basis of apothecaries' measure. The College, however, recognized a system adopted in a previous edition of the London Pharmacopœia, and founded on the wine measure, in general use in Britain prior to the legislative alterations of 1826. According to this system, the old wine gallon of 231 cubic inches, or 58317.8 troy grains of distilled water at 62° F. and 30° B., is divided into eight "pounds by measure" or old wine pints, each containing 7289.725 grains of water. The pint is subdivided into sixteen "ounces by measure," containing each 455.6075 grains; the ounce is divided into eight "drachms by measure" of 56.95 grains each; and the drachm is divided into three "scruples by measure," each of which contains nineteen grains troy, and consists of twenty "grains by measure." Care must be taken, therefore, not to confound the Dublin apothecaries' measure with that more recently adopted by the two British Colleges.

## IMPERIAL MEASURE.

1 minim					Grains troy.
60 =	1 fluidrachm			=	0.91
480 =	8 " 1 fluidounce			=	54.7
9600 =	160 " = 20 " = 1 pint			=	437.5 = 1 oz.
76800 =	1280 " = 160 " = 8 " = 1 gallon			=	8750 = 1.25 lb.
				=	70000 = 10 lbs.

## VALUE OF WINE OR APOTHECARIES' MEASURE IN IMPERIAL MEASURE.

Wine Measure.		Apothecaries' Measure.			
		Pints.	Fluidounces.	Fluidrachms.	Minims.
1 gallon	=	6	13	2	23
1 pint	=		16	5	18
1 fluidounce	=		1	0	20
1 fluidrachm	=			1	2½

## VALUE OF IMPERIAL MEASURE IN WINE OR APOTHECARIES' MEASURE.

	Gallon.	Pints.	Fluidounces.	Fluidrachms.	Minims.
1 gallon	1	1	9	5	8
1 pint		1	3	1	58
1 fluidounce				7	41
1 fluidrachm					58

Besides these regular and authorized measures, there are others constantly used in the preparation and administration of medicines, which require notice. These, which have been adopted for convenience, are far from being uniform, but may be used without danger for ordinary purposes. Drs. Wood and Bache estimate the

Teacup	as containing about	four fluidounces.
Wineglass	“ “	two fluidounces.
Tablespoon	“ “	a half a fluidounce.
Teaspoon	“ “	a fluidrachm.

Dr. Christison gives a somewhat different calculation; he considers

A Tumbler	to contain	eight fluidounces.
Breakfast eup	“ do do	
Teacup	“	five fluidounces.
Wineglass	“	two fluidounces.
Tablespoon	“	half a fluidounce.
Dessertspoon	“	two fluidrachms.
Teaspoon	“	one fluidrachm.

In both these estimates, the teaspoon is rated too low; they apply very well to the teaspoonful formerly used, but not to the much larger kind now in general use, which approaches the dessertspoon in capacity. Quart and pint bottles are also sometimes employed as measures of capacity for medical purposes; but they are very fallacious guides of quantity, as the so called quart bottle never holds a quart, nor the misnamed pint bottle a pint. The first seldom holds more than twenty-six to twenty-seven fluidounces, and the latter from thirteen to fourteen.

It is still more common to estimate small quantities or doses of medicine by drops, as representing, and equivalent to, minims. This is so convenient, that it is not likely to be abandoned, though nothing can be more erroneous, as the size of the drop of the same fluid varies much with the form of the mouth of the bottle, its size, the mode in which the operation is performed, and still more from the nature of the fluid thus attempted to be measured. Numerous experiments have been made on the subject, but can only be considered as approximate estimates, though sufficiently accurate for practical purposes.

Mr. Alsop, of London, some years since, published the result of some experiments made by him, which show the great variation to which this mode of measuring is liable. The following proves that the number of drops required to measure a fluidrachm are widely different when dropped from a large or a small bottle.

One fluidrachm.	Large bottle.	Small bottle.
Diluted sulphuric acid - - - -	24 drops	84 drops
Scheele's hydrocyanic acid - - - -	35 “	60 “
Distilled water - - - -	31 “	54 “
Solution of ammonia - - - -	40 “	48 “
Tincture of opium - - - -	84 “	135 “
Rectified spirit - - - -	100 “	130 “
Tincture of muriate of iron - - - -	100 “	150 “

Mr. Durand, of Philadelphia, in an able paper on the subject (*Journ. Phila. Col. of Pharm.*, vol. i. p. 165), says, “The bulk of drops depends not only on the density of the liquids which furnish them, and the cohesion of the constituent particles of that liquid, but also on the shape of the mouth of the vessel from which they are poured. An open vessel with a beak, such as the common graduated measure, affords a larger drop than a bottle with the stopper half drawn out; a mode commonly practiced. That furnished by the dropping tube is still smaller, and is ever liable to vary with the greater or lesser diameter of its extremity. Besides, in every instance, the first drops poured from any vessel are always smaller than those subsequently obtained.”

He goes on to say that the following may be considered as established:—

1. That liquids which contain a small proportion of water afford a small drop; while, on the contrary, liquids containing a large quantity of water furnish a large

drop. For instance, concentrated acids, ethers, rectified alcohol, fixed and essential oils, &c., which contain a very small proportion of water, yield a smaller drop than diluted acids, weak alcohol, wine, &c.

2. That, among liquids containing a large proportion of water, those which are not charged with remedial substances give a larger and heavier drop than those same liquids containing extraneous bodies in solution. Thus, weak alcohol, wine, vinegar, and water furnish a larger and heavier drop than the tinctures prepared from them.

The following table illustrates his remarks:—

TABLE

*Showing the Differences between Minims, Drops, and Grains of various Medicinal Liquid Preparations of the Pharmacopœia of the United States, &c.*

PREPARATIONS.	No. of drops in 30 minims.	No. of min. in 30 drops.	No. of drops in 20 grains.	No. of grains in 20 drops.
Sulphuric acid - - - - -	30	13.3	25	16
Sulphuric ether - - - - -	50	8	60	6
Rectified alcohol - - - - -	46	8.6	57	7.1
Nitric acid - - - - -	28	14.2	22.2	18
Acetic acid (crystallizable) - - - - -	40	10	40	10
Muriatic acid - - - - -	18	22.2	18.1	22
Oil of wormseed (chenopod, anthelminticum) -	40	10	50	8
of peppermint, aniseed, sweet almond, olive, palma christi - - - - -	40	10	43.5	9
of cloves - - - - -	40	10	36	11
of cinnamon - - - - -	40	10	32	12.5
Copaiba - - - - -	40	10	40	10
Diluted alcohol - - - - -	40	10	42	9.5
Tincture of hydriodate of potassa, cantharides, kino, digitalis, assafetida, sulphuric acid, colchicum, opium, valerian, guaiacum -	40	10	43	9.3
of valerian, guaiacum (volatile) - - - - -	40	10	50	8
of muriate of iron - - - - -	44	9.1	50	8
Wine, Teneriffe - - - - -	26	15.3	25	16
antimonial - - - - -	24	16.6	26	15.3
of opium (Sydenham's laudanum) - - - - -	26	15.3	29	13.7
of colchicum root and seeds - - - - -	25	16	29	13.7
Vinegar, distilled - - - - -	19	21	20	20
of opium (black drop) } - - - - -	26	15.3	25	16
of colchicum - - - - -				
of squill - - - - -				
Water, distilled - - - - -	15	26.6	17.5	24.5
solution of hydrocyanic acid - - - - -	15	26.6	17.5	24.5
sulphuric acid (1 to 7) - - - - -	17	23.5	17	23.5
nitric " " - - - - -	17	23.5	17	23.5
ammonia (strong) - - - - -	18	22.2	18.5	22
" (weak) - - - - -	15	26.6	20	20
hydriodate of potassa - - - - -	18	22.2	20	20
arsenite of potassa - - - - -	19	21	20	20

The only mode to obviate these discrepancies is for the physician to order the administration of small quantities of fluid medicines in minims, and not in drops, which would induce the use of a minim measure in every sick room.



## FRENCH MEASURES OF CAPACITY.

1 millilitre	-	-	-	-	-	=	16.2318 minims.
10 =	1 centilitre	-	-	-	-	=	2.7053 fl. dr.
100 =	10 =	1 decilitre	-	-	-	=	3.3816 fl. ounces
1000 =	100 =	10 =	1 litre	-	-	=	2.1135 pints.
10000 =	1000 =	100 =	10 =	1 decalitre	-	=	2.6419 gallons.
100000 =	10000 =	1000 =	100 =	10 =	1 hectolitre	=	26.4190 "
1000000 =	100000 =	10000 =	1000 =	100 =	10 =	1 kilolitre	= 264.1900 "

Litres.	Eng. cubic inches.	Imperial pints.	Wine pints.	Troy ounces of water.
1 =	61.028 =	1.7608 =	2.1135 =	31.104
2 =	122.056 =	3.5216 =	4.2270 =	62.208
3 =	183.084 =	5.2822 =	6.3405 =	96.312
4 =	244.112 =	7.0430 =	8.4541 =	128.416
5 =	305.140 =	8.8038 =	10.5476 =	160.520
6 =	366.168 =	10.5646 =	12.6811 =	192.624
7 =	427.196 =	12.3253 =	14.7947 =	224.728
8 =	488.224 =	14.0861 =	16.9082 =	256.832
9 =	549.252 =	15.8469 =	19.0217 =	288.936

The former measure in use before the introduction of the metrical system was the *pint*, and its subdivisions; and it still continues to be employed in some parts. It agrees with the metrical measure as follows:—

1 demi-poisson	=	62.50 grammes	=	0 litre	0 decilitre	1 centilitre.
1 poisson	=	125	=	0 "	1 "	2 "
1 demi-setier	=	250	=	0 "	2 "	5 "
1 chopine	=	500	=	0 "	5 "	0 "
1 pinte	=	1000	=	1 "	0 "	0 "

The subjoined is a list of the principal liquid measures of Europe, with their corresponding value in the metrical measure of France:—

AUSTRIA.—The fundamental unity is the *mass* or *kanne* = 71.3343 Par. cubic inches, or 1.415015 litre. The mass is divided into 3 *seidel*, and 40 mass make one *eimer*.

BADEN.—The fundamental unity is the *mass* = 1.5 decimetre cubic, and accordingly equivalent to 1.5 litre.

BAVARIA.—The fundamental unity is the *mass* = 43 decimal cubic inches of Bavaria, or 1.06921728 litre. The mass is divided into 4 *schooppen*.

DENMARK.—The fundamental unity is the *pott* ( $\frac{1}{32}$ d part of a cubic foot Danish), equivalent to 0.96529 litre. The pott is divided into four *pejel*, and 2 potts make a *kanne*.

GRAND DUCHY OF HESSE.—The fundamental unity is the *mass*, which corresponds exactly to 2 litres. The mass is divided into 4 *schooppen*.

NAPLES.—The unity is the *barile*, equivalent to 43.6216 litres.

PORTUGAL.—The unity is the *almude*, equivalent to 16.451 litres.

PRUSSIA.—The unity is the *quart*. This measure has a capacity of 64 cubic inches of distilled water, at 61.25 Fahr. and 27° 10' barom., = 57.724 cubic inches of Paris, or 1.145 litre.

ROME.—The unity is the *barile*, equivalent to 58.3416 litres.

RUSSIA.—The unity is the *wedro*, which contains 750 cubic inches of distilled water at 50° Fahr. and 30° barom., = 30 pounds Russian. The *wedro* is equivalent to 12.28963047 litres, and one litre is accordingly equivalent to 0.081369410776019 *wedro*. The *wedro* is divided into 10 *stof*, and the *stof* into 10 *tschark*.

SPAIN.—The unity is the *arroba*, equivalent to 16.073 litres.

SWEDEN.—The fundamental unity is the *kanna*, which contains 100 cubic decimal inches of pure water at 62° Fahr., *in vacuo*, equivalent to 6.151951 pounds Swedish. One pound Swedish of pure water at 62° Fahr. *in vacuo*, is equal to 0.4250104 litre;

the *kanna* is consequently equivalent to 2.6146431552904 litres, or, calculated upon the maximum density of water, 2.617341607126 litres, or, in shorter terms, 2.62 litres. The *kanna* is divided into 2 *stop*, the *stop* into 4 *quarter*, and the *quarter* into 4 *jungfrus*.

TURIN.—The unity is the *brenta*, divided into 36 pints, and equivalent to 49.28468 litres.

TUSCANY.—The unity is the *barile*, equivalent to 45.584 litres.

WIRTEMBERG.—The unity is the *mass*, which contains 78.125 cubic inches (Wirttemberg measure), and is equivalent to 1.83705 litre. The *mass* is divided into four *schoppen*.

## SPECIFIC GRAVITY.

The following remarks on Specific Gravity have been taken from Redwood's edition to Gray's Supplement, and comprise in a condensed form much useful information.

The determination of the specific gravity of a body consists in estimating the weight of a given volume of it, as compared with an equal volume of some other body. The bodies usually taken as the standard of comparison are *pure water* for solids and liquids, and *atmospheric air* for gases.

The *specific gravity of a solid* is determined by first weighing it in the ordinary manner with an accurate balance suspended in the air; then attaching a horse-hair, or fine silken thread to the solid body, immersing it in pure distilled water, and weighing it while thus immersed. The weight of the body in air, divided by the difference between its weight in air and its weight in water, will be its specific gravity. Thus a piece of lead is found to weigh 398 grains in air. When immersed in water, its weight is 362.4 grains; and the difference between these two weights, namely, 35.6, is the weight of the volume of water displaced by the lead, or of a volume of water equal to that of the lead. The volume of water being taken as unity, the specific gravity of the lead is found by the following rule of three sum:—

35.6 : 1 : : 398 : 11.176, the specific gravity of the lead.

In taking the specific gravity of a *solid substance lighter than water*, some modification of the process is required: but we have, nevertheless, the same preliminary points to determine; first, the weight of the substance in air; and secondly, the weight of an equal volume of water. This may be illustrated by taking the specific gravity of a piece of wax. The weight of the wax in air is 105.4 grains. On immersing the wax in water, two pressures are exerted—a pressure downwards, equal to the gravity or weight of the wax, and a pressure upwards, equal to the weight of the volume of water displaced by the wax; but the specific gravity of water being greater than that of wax, the upward pressure preponderates, and the wax rises to the surface. Thus, we find that a volume of water equal to that of the wax weighs as much as the wax, and something more. We must ascertain how much more; and this is done in the following manner: Some body heavier than water, and the weight of which in water is known, is attached to the wax, and the two bodies are weighed in water together. A piece of lead may be used for this purpose. The lead, alone, weighs 378 grains in water; with the wax attached to it, the weight in water is 372.4 grains, making a difference of 5.6 grains; and this 5.6 grains is equal to the excess of the upward over the downward pressure on the wax, when immersed in water. Thus, a volume of water equal to that of the wax weighs 5.6 grains more than the wax, or  $105.4 + 5.6 = 111$  grains.

Then,  $111 : 1 : : 105.5 : 0.949$ , the specific gravity of the wax.

It sometimes happens that the solid substance, the specific gravity of which is to be determined, is in *powder*, or in *several small particles*. In such cases, it is found convenient to proceed as in the following method of taking the specific gravity of calomel:—

100 grains of calomel are introduced into a specific gravity bottle, which holds 1000 grains of distilled water; the bottle is filled up with water, and the weight of the contents is found to be 1083.7 grains; deducting the weight of the calomel (100 grains) from this, the remainder (983.7 grains) will be the weight of the water in the

bottle, and the difference (16.3 grains) between this and 1000 grains, the weight of the whole contents of the bottle when filled with distilled water, is the weight of a volume of water equal to the volume of the calomel.

Then,  $16.3 : 1 :: 100 : 6.03$ , the specific gravity of the calomel.

In taking the *specific gravity of substances soluble in water*, other modifications of the process are required. Sometimes the substance may be covered with a thin coating of varnish, so as to protect it from the action of the water. This method answers very well for blue pill, which may be brushed over with a strong tincture of mastic, and then proceeded with as in the case of the lead. In other instances, however, it is necessary to pursue a different course. Thus, any powder that is soluble in water must have its specific gravity taken, in the first instance, with reference to some liquid in which it is not soluble. Spirit of wine, oil of turpentine, or olive oil, may be used in such cases. The process may be illustrated by describing the method of taking the specific gravity of guano in oil of turpentine.

In the first place, the specific gravity of the oil of turpentine is ascertained to be 0.874. Then 100 grains of guano are introduced into a specific gravity bottle, as in the case of the calomel; and the bottle being filled up with oil of turpentine, the weight of the contents is found to be 922.7 grains, from which, deducting 100 grains, the remainder (842.7 grains) will represent the oil not displaced by the guano; and this, deducted from 874 grains, the quantity of oil the bottle is capable of holding, leaves 51.3 grains as the weight of a volume of oil of turpentine equal to that of the guano. Now,  $874 : 51.3 :: 1000 : 58.7$ , the weight of a volume of water equal to that of the guano.

Then,  $58.7 : 1 :: 100 : 1.7$ , the specific gravity of the guano.

The methods by which the *specific gravities of liquids* are usually determined may be divided into two classes:—

1st. Those which consist in filling any suitable vessel with the liquid to be estimated, ascertaining the weight of the contents, and dividing this by the weight of the same volume of water.

2d. Those which consist in displacing a portion of the liquid by some solid body floating in it, and estimating the specific gravity according to the weight and volume of the substance immersed, as compared with its immersion in water.

In the first case, the instruments employed are a specific gravity bottle and an ordinary balance.

In the second case, the instruments used may be comprehended under the general terms of *hydrometers* or *areometers*. These, however, are distinguished from each other, for there are many varieties of them, by different names, according to the particular purpose for which they are respectively intended, or from some peculiarity in their construction.

The *specific gravity bottle* affords the most accurate means of determining the comparative densities of liquids. It consists, usually, of a globular bottle with a flat bottom and a slender neck, which holds exactly 1000 grains of distilled water at a certain fixed temperature. It is very easy at any time to test the accuracy of one of these bottles by a single experiment; and, having ascertained that the bottle is correctly adjusted with regard to distilled water, the indications afforded with any other liquid will be equally trustworthy. The weight in grains of the quantity of any liquid filling such bottle will indicate its specific gravity.

*Hydrometers*, or *areometers*, are floating instruments, and their application for the purpose of determining the specific gravities of liquids depends upon the fact that a body immersed in any liquid sustains a pressure from below upwards equal to the weight of the volume of the liquid displaced by such body.

The use of hydrometers for determining the specific gravities of liquids has been traced back to a period about 300 years before Christ; an instrument of this kind being described as the invention of Archimedes, the Sicilian mathematician. It subsequently fell into disuse, but was again brought into notice by Basil Valentine.

There are two kinds of hydrometers, which may be taken as the types of all the different varieties in regard to construction:—

1st. Those which are always immersed in the liquids to be tried, to the same



depth, and to which weights are added to adjust the instrument to the density of any particular liquid. Of this description are Fahrenheit's, Nicholson's, and Guyton de Morveau's hydrometers.

2d. Those which are always used with the same weight, but which sink into the liquids to be tried to different depths, according to the densities of the liquids. These usually have graduated scales attached to their stems. Of this description are the common glass hydrometers, generally including those of Baumé, Cartier, Gay Lussac, Twaddle, Zanetti, &c., and the specific gravity beads.

Sikes's and Dicas's hydrometers combine the principles of both types, having movable weights and graduated scales.

Hydrometers may also be divided into two classes, as follows:—

*First.* Those having a general application, for determining the comparative densities of any liquids.

*Second.* Those intended for special application; as for estimating the comparative strengths of spirits, or the comparative densities of syrups, oils, &c.

Fahrenheit's, Nicholson's, Guyton de Morveau's, and the common glass hydrometers, including Baumé's, Cartier's, Zanetti's, and the specific gravity beads, belong to the first class.

Gay Lussac's, Sikes's, and Dicas's hydrometers, the saccharometer, urinometer, and clæometer, belong to the second class.

*Fahrenheit's hydrometer* consists of two glass bulbs blown in a glass tube, like a common hydrometer, excepting that the upper bulb is larger, and the stem, which is small, is terminated at the top in a cup or funnel. It has a mark on the middle of the stem, indicating the point at which the instrument is to be made to float, by means of weights put into the cup.

*Nicholson's hydrometer* is a modification of Fahrenheit's. It is made of brass, and consists of a hollow globe, to which is fixed a slender stem surmounted by a cup; on the opposite side of the globe is another cup fixed in a kind of stirrup, and loaded, so that this may always form the lowest point of the instrument when immersed in any liquid. There is a mark on the middle of the upper stem, indicating the point at which the instrument is to be made to float. A certain weight is introduced into the cup, to cause the instrument to sink to the proper mark in distilled water. On immersing the hydrometer into any other liquid, more or less weight will have to be put into the cup, according as such liquid is more or less dense than water. Thus the relative densities of liquids are determined.

This instrument is also applicable for taking the specific gravities of solids. If the solid substance be put into the cup as part of the weight required to sink the hydrometer in distilled water, the weight of the substance in air is ascertained; and if it be then put into the lower cup, immersed in the water, and the instrument again adjusted, its weight in water is ascertained; and from these its specific gravity is calculated.

*Guyton de Morveau's hydrometer* is similar to Fahrenheit's.

*Baumé's hydrometers* are used extensively in this country, as well as in France, and are applicable for all kinds of liquids. There are two distinct instruments: one for liquids lighter than water, and the other for liquids heavier than water. The latter is, for distinction, called the *acidometer* or *saccharometer* (*pèse-acide* or *pèse-sirop*); the former, the *spirit hydrometer* (*pèse-esprit*).

*Baumé's acidometer* is made in the form of the common hydrometers. It consists of a glass tube terminated at the lower end by two bulbs, the lowest bulb being much smaller than the other, and intended to contain the ballast with which the instrument is loaded. The scale is marked on a slip of paper, or of ivory, fixed in the tube, and is adjusted in the following manner: The top of the tube being open, the slip of paper on which the scale is to be marked is put into the stem, and the instrument is then immersed in pure distilled water; quicksilver is now dropped into the lower ball until the instrument sinks so low in the water that only the top of the stem remains above the surface, and a mark is made on the glass denoting exactly the point to which it sinks. The instrument is now taken out of the pure water and put into a solution of fifteen parts of common salt in eighty-five parts of distilled

water, this solution being at the same temperature as the water in which the instrument was previously immersed; the point to which it sinks in this solution is to be marked on the stem as before, and the distance between the two marks being taken with a pair of compasses, and transferred to the slip of paper, the first is made the zero or 0, and the other the 15th degree of the scale. This distance being divided into fifteen equal parts or divisions, each division is called a degree, and the scale is completed by adding as many more degrees as the length of the stem will admit of. This being done, the slip of paper is again introduced into its place, and so fixed that the zero (0) of the scale shall be exactly opposite the first mark made on the glass. The end of the stem is now sealed with the flame of a blowpipe.

*Baumé's spirit hydrometer* is similar in form to the acidometer; but the weight of the instrument, and the scale, are different. In this case, the hydrometer is first immersed, as before, in pure distilled water; but it is made to float, so that the greater part of the stem shall be above the surface of the water. This point is marked, and the instrument is then transferred to a solution of ten parts of common salt in ninety parts of water, when another mark is made. The distance between these marks is made ten degrees of the scale, which are divided with the compasses, and marked on the slip of paper, as in the other case, the floating point in the solution of salt being made the zero, and the degrees carried upwards from this point.

The temperature at which these instruments were originally adjusted by Baumé, was 10° Reaumur, or 12.5 Centigrade; but those made in England are usually adjusted at 60° Fahrenheit. It is sometimes important to be aware of this difference.

*Cartier's hydrometer* is much used in France. It is only applicable for liquids lighter than water. This instrument is a modification of Baumé's spirit hydrometer, the form of the instrument being the same, and the same point being taken as the zero of the scale; but the space which, in Baumé's scale, is divided into 32°, is in Cartier's divided into 30°.

It is becoming the common practice in this country to have the scales of hydrometers marked with the specific gravities intended to be indicated, and this is by far the most convenient kind of hydrometer for general use.

*Twaddle's hydrometers* are much used in Scotland, and occasionally in England. They are made of glass like the common hydrometers, and are sold in sets of six. Each degree on the scale is equal to 0.005 of specific gravity, so that the specific gravity of a liquid is found, with these hydrometers, by multiplying the number of degrees indicated by 5, and adding 1000. Thus, 10° by Twaddle's hydrometer,  $\times 5 + 1000 = 1.050$  specific gravity.

*Zanetti's hydrometers*, which are made at Manchester, are also sold in sets of six. With these the specific gravity is got by adding a cipher to the number of degrees indicated.

*Specific gravity beads*, sometimes called *Lovi's beads*, are hollow sealed globes of glass, about the size of small pistol-bullets. Each bead is a small hydrometer, intended to indicate one fixed density, by its remaining half way between the top and bottom of the liquid into which it is introduced. These beads are sold in sets, each one being marked with the specific gravity it is to indicate at a certain fixed temperature. They are very useful in making mixtures of any required densities, as, for instance, in making test acids.

*Gay Lussac's alcolometre* is frequently employed in France; it is adapted only for estimating the strength of spirits. The instrument is made like a common glass hydrometer, the scale of which is divided into 100 parts or degrees. The lowest division marked 0, at the bottom of the scale, denotes the specific gravity of pure water at a temperature of 15° cent., and the highest division, at the top of the scale, the specific gravity of absolute alcohol at the same temperature. The intermediate degrees indicate the number of volumes of absolute alcohol in 100 volumes of the spirit tried. The instrument is accompanied by a table for correcting the numbers marked on the scale, when it is used at any other temperature than that of 15° cent.

*Sikes's hydrometer* is used exclusively in the collection of the spirit revenue. It consists of a spherical ball or float, and an upper and a lower stem made of brass; the upper stem has ten principal divisions, numbered 1, 2, 3, &c., which are each subdivided into ten parts.

vided into five parts; the lower stem is made conical, and has a pear-shaped loaded bulb at its lower extremity. There are nine movable weights, having the form of circular discs, and numbered 10, 20, 30, and so on to 90. Each of the circular weights is cut into its centre, so that it can be placed on the inferior conical stem, and slid down to the bulb; but, in consequence of the enlargement of the cone, they cannot slip off at the bottom, but must be drawn up to the thin part for this purpose. The instrument is adjusted to strong spirit, specific gravity .825, at 60° Fahr., this being reckoned as standard alcohol. In this spirit, the instrument floats at the first division, 0, or zero, without a weight. In weaker spirit, having a greater density, the hydrometer will not sink so low; and, if the density be much greater, it will be necessary to add one of the weights to cause the entire immersion of the bulb of the instrument. Each weight represents as many principal divisions of the stem as its number indicates: thus, the heaviest weight, marked 90, is equivalent to 90 divisions of the stem, and the instrument with this weight added floats at 0 in distilled water. As each principal division on the stem is divided into five, the instrument has a range of 500 degrees between *standard alcohol*, specific gravity .825, and water. In using this instrument, it is immersed in the spirit, and pressed down by the hand to 0, till the whole divided part of the stem be wet. The force of the hand required to sink it will be a guide in selecting the proper weight. Having taken one of the circular weights, which is necessary for this purpose, it is slipped on the conical stem. The instrument is again immersed, and pressed down as before to 0, and is then allowed to rise and settle at any point of the scale. The eye is then brought to the level of the surface of the spirit, and the part of the stem cut by the surface, *as seen from below*, is marked. The number thus indicated by the stem is added to the number of the weight employed, and with this sum at the side, and the temperature of the spirits at the top, the strength *per cent.* is found in a table which accompanies the hydrometer. The strength is expressed in numbers denoting the excess or deficiency *per cent.* of proof spirit in any sample; and the number itself, having its decimal point removed two places to the left, becomes a factor, whereby the gauged contents of a cask or vessel of such spirit being multiplied, and the product being added to the gauged contents if over proof, or deducted from it if under proof, the result will be the actual quantity of proof spirit contained in such cask or vessel.

*Dicas's hydrometer* is similar in construction to Sikes's; and it is used in a similar manner, with the same result, indicating the relation of the spirit tried to standard proof spirit.

It is the practice in commerce to designate the strength of spirit as so many degrees above or below proof, the government having fixed upon what is called *proof spirit* as the standard in comparison with which the strength of all spirit shall be estimated. The term *proof* is said to have been derived from the ancient practice of trying the strength of spirit by pouring it over gunpowder in a cup, and then setting fire to the spirit; if, when the spirit had burned away, the gunpowder exploded, the spirit was said to be *over proof*: if, on the other hand, the gunpowder failed to ignite, in consequence of the water left from the spirit, it was said to be *under proof*. The weakest spirit capable of firing gunpowder in this way was called *proof spirit*: but it requires a spirit nearly of the strength of what is now called rectified spirit to stand this test. The *standard proof spirit* of the excise is defined by law (56 Geo. III. cap. 140) to be "*that which, at a temperature of 51° by Fahrenheit's thermometer, weighs exactly twelve-thirteenth parts of an equal measure of distilled water.*" This will have a specific gravity of .923 at 51° Fahr., or about .920 at 60° Fahr. The *standard alcohol* of the excise is spirit, the specific gravity of which is .825 at 60° Fahr. By "*spirit 60 degrees over proof*," is understood a spirit, 100 measures of which, added to 60 measures of water, will form *standard proof spirit*, sp. gr. 920. By "*spirit 10 degrees under proof*," is understood a spirit, 100 measures of which, mixed with 10 measures of standard alcohol, sp. gr. .825, will form *standard proof spirit*.

*Saccharometers*, which are hydrometers intended for determining the density of syrups, are usually made and graduated in the same manner as Baumé's acidometers, and differ only from these in being made smaller; but the scale is sometimes graduated to indicate the proportion of sugar in the solution.



The *urinometer* is a small hydrometer, originally suggested by Dr. Prout, for estimating the density of urine. The scale is divided into 60 degrees, the zero being the point at which it floats in distilled water. The numbers on the scale, added to 1000, the assumed sp. gr. of water, give the specific gravities at the respective points; thus, supposing the number cut by the surface of the liquid to be 30, this indicates a sp. gr. 1030. The letters H. S., on the back of the scale, signify *healthy standard*, which ranges from 10° to 20° of the scale.

The *clavimeter* is a very delicate glass hydrometer, intended for testing the purity of olive oil or oil of almonds, by determining their densities. The 0 or zero of the scale is the point at which the instrument floats in *oil of poppy seeds*. The point at which it floats in *pure olive oil* is made the 50th degree, and the space between these two points is divided into 50 equal parts, and numbered accordingly. It floats at 38 or 38½ in *pure oil of almonds*.

The following tables have been drawn up for the purpose of showing the relations between the indications afforded by some of the foregoing instruments.

*Relation between Specific Gravities, and Degrees of Baumé's Hydrometer for Liquids heavier than Water.*

Sp. gr.	Baumé.	Sp. gr.	Baumé.	Sp. gr.	Baumé.	Sp. gr.	Baumé.	Sp. gr.	Baumé.
1.000 =	0	1.116 =	15	1.264 =	30	1.454 =	45	1.714 =	60
1.007	1	1.125	16	1.275	31	1.470	46	1.736	61
1.014	2	1.134	17	1.286	32	1.485	47	1.758	62
1.022	3	1.143	18	1.298	33	1.501	48	1.779	63
1.029	4	1.152	19	1.309	34	1.526	49	1.801	64
1.036	5	1.161	20	1.321	35	1.532	50	1.823	65
1.044	6	1.171	21	1.334	36	1.549	51	1.847	66
1.052	7	1.180	22	1.346	37	1.566	52	1.872	67
1.060	8	1.190	23	1.359	38	1.583	53	1.897	68
1.067	9	1.199	24	1.372	39	1.601	54	1.921	69
1.075	10	1.210	25	1.384	40	1.618	55	1.946	70
1.083	11	1.221	26	1.398	41	1.637	56	1.974	71
1.091	12	1.231	27	1.412	42	1.656	57	2.002	72
1.100	13	1.242	28	1.426	43	1.676	58	2.031	73
1.108	14	1.252	29	1.440	44	1.695	59	2.059	74
								2.087	75

*Relation between Specific Gravities, and Degrees of Baumé's Hydrometer for Liquids lighter than Water.*

Sp. gr.	Baumé.	Sp. gr.	Baumé.	Sp. gr.	Baumé.	Sp. gr.	Baumé.	Sp. gr.	Baumé.
1000 =	10	0.936 =	20	0.880 =	30	0.830 =	40	0.785 =	50
0.993	11	0.930	21	0.874	31	0.825	41	0.781	51
0.986	12	0.924	22	0.869	32	0.820	42	0.777	52
0.980	13	0.918	23	0.864	33	0.816	43	0.773	53
0.973	14	0.913	24	0.859	34	0.811	44	0.768	54
0.967	15	0.907	25	0.854	35	0.807	45	0.764	55
0.960	16	0.901	26	0.849	36	0.802	46	0.760	56
0.954	17	0.896	27	0.844	37	0.798	47	0.757	57
0.948	18	0.890	28	0.839	38	0.794	48	0.753	58
0.942	19	0.885	29	0.834	39	0.789	49	0.749	59
								0.745	60

## TEMPERATURES TO BE OBSERVED IN CERTAIN PHARMACEUTICAL OPERATIONS.

In the fermentation of saccharine solutions, the highest temperature should not exceed 86° (Thomson).

The lowest temperature at which they will ferment is 38° (Thomson).

The process of acetous fermentation is best conducted at a temperature of about 86°.

The temperature requisite to coagulate albumen varies with the state of dilution. If the quantity of albumen be so great that the liquid has a slimy aspect, a heat of 145° or 150° suffices, but in a very dilute condition boiling is required (Fownes).

*In the London and U. S. Pharmacopœias:*

When a boiling heat is directed, a temperature is meant of 212° Fahr.

When a gentle heat is directed, a temperature is meant of from 90° to 100°.

The specific gravities of substances ordered in the London Pharmacopœia are to be taken at a temperature of 62°.

A water bath is that by which any substance contained in a proper vessel is exposed either to hot water, or the vapor of boiling water. A sand bath is made of sand, to be gradually heated, in which anything is placed contained in a proper vessel.

Syrups are to be kept in a place where the temperature never exceeds 55°.

Vegetables, shortly after they have been gathered, those excepted which ought to be fresh, are to be lightly strewed, and dried as quickly as possible with a gentle heat (90° to 100°). They are to be kept afterwards in proper vessels, excluded from the access of light and moisture.

*In the Dublin Pharmacopœia:*

By the term superior heat is meant some degree between 200° and 212°.

When a medium heat is directed, a temperature is meant between 100° and 200°.

When an inferior heat is directed, a temperature is meant between 90° and 100°.

In the process of digestion, an inferior heat is to be applied, unless it should be otherwise directed. In the process of maceration, a heat should be applied between 60° and 90°.

*In the Dublin, Edinburgh, and U. S. Pharmacopœias:*

Whenever mention occurs of the specific gravity of any body, its temperature is supposed to be at 60°.

## HYDROMETRICAL EQUIVALENTS.

Sp. gr. at 60° Fahr.	100 parts contain of		1000 parts contain of standard alc. sp. gr. 825	Sikes.	Baumé.	Cartier.	Per cent. of alcohol, sp. gr. 796 by volume. Gay Lussac.
	Alcohol sp. gr. 796.	Water. By weight.					
796	100	0			46.5	43.48	100
797	99.5	.5					99.75
798	99	1			46	43.06	99.50
799	98.67	1.33					99.25
800	98.33	1.67					99
801	98	2					98.75
802	97.67	2.33			45	42.14	98.50
803	97.33	2.67				42	98.28
804	97	3					98.15
805	96.67	3.33					98
806	96.33	3.67					97.80
806.5	96.17	3.83			44	41.22	97.70



Sp. gr. at 60° Fah.	100 parts contain of		1000 parts contain of standard alc. sp. gr. 825.	Sikes.	Baumé.	Cartier.	Per cent. of alcohol, sp. gr. 796 by volume. Gay Lussac.
	Alcohol sp. gr. 796.	Water. By weight.					
807	96	4					97.60
808	95.5	4.5				41	97.40
809	95	5					97.29
809.5	94.89	5.10					97.10
810	94.67	5.33					97
811	94.33	5.67			43	40.34	96.75
812	94	6					96.50
813	93.67	6.33				40	96.25
814	93.33	6.67					96
815	93	7					95.75
816	92.5	7.5			42	39.40	95.50
817	92	8					95.25
818	91.67	8.33					95
818.6	91.5	8.5				39	94.90
819	91.33	8.67					94.75
820	91	9					94.50
821	91.5	9.5			41	38.46	94.25
822	90	10					94
823	89.67	10.33				38	93.75
824	89.33	10.67					93.50
825	89	11	1000	63	O. P.	40	93.25
826	88.5	11.5	993	62			93
827	88	12	988.5	61.5		37	92.6
828	87.67	12.33	984	61	39.5		92.3
829	87.33	12.67	979.5	60.5	39	36.63	91
830	87	13	975	60			91.7
831	86.5	13.5	970.5	59.5	38.5	36.17	91.35
832	86	14	966	59		36	91
833	85.67	14.33	961.5	58.3			90.65
834	85.33	14.67	957	58	38	35.72	90.3
835	85	15	953	57.5			90
836	84.67	15.33	949	57	37.5	35.26	89.7
837	84.33	15.67	944.5	56.5			89.35
837.6	84.25	15.75	942.5	56.3		35	89.20
838	84	16	940	56			89
839	83.5	16.5	936	55.5	37	34.80	88.75
840	83	17	932	55			88.5
841	82.67	17.33	928	54.5	36.5		88.25
842	82.33	17.67	924	54		34.94	88
843	82	18	920	53.5		34	87.65
844	81.67	18.33	916	53	36	33.88	87.3
845	81.33	18.67	912	52.5			87
846	81	19	908	52			86.7
847	80.5	19.5	903	51	36.5	33.42	86.35
848	80	20	898	50			86
849	79.67	20.33	893	49.5			85.65
850	79.33	20.67	888	49	35	33	85.3
851	79	21	883	48.5			85
852	78.5	21.5	878	48	34.5	32.43	84.7
853	78	22	873	47.5			84.35
854	77.5	22.5	868	47			84
855	77	23	862.5	46.5	34	32.04	83.65
856	76.5	23.5	857	46			83.3

# INTRODUCTION.

Sp. gr. at 60° Fah.	100 parts contain of		1000 parts contain of standard alc. sp. gr. 825.	Sikes.	Baumé.	Cartier.	Per cent. of alcohol, sp. gr. 796 by volume. Gay Lussac.
	Alcohol sp. gr. 796.	Water. By weight.					
857	76	24	853	45.5 O. P.	33.5	31.58	83
858	75.67	24.33	849	45			82.7
859	75.33	24.67	844.5	45			82.35
860	75	25	840	45	33	31.13	82
861	74.67	25.33	836.5	44.5		31	81.7
862	74.33	25.67	833	44			81.3
862.5	74.16	25.84	830.5	43.75	32.5	30.76	80
863	74	26	828	43.5			80.8
864	73.5	26.5	823	43			80.3
865	73	27	818	42.5	32	30.21	79.95
866	72.5	27.5	813	42			79.6
867	72	28	810	41			79.3
867.5	71.83	28.17	808.5	40.5	31.5	29.78	79.15
868	71.67	28.33	807	40			79
869	71.33	28.67	802.5	39.5			78.65
870	71	29	798	39	31	29.29	78.3
871	70.5	29.5	792.5	38.5			78
872	70	30	787	38		29	77.7
873	69.5	30.5	781.5	37	30.5	28.83	77.35
874	69	31	776	36			77
875	68.67	31.33	772	35			76.5
876	68.33	31.67	768	34	30	28.38	76
877	68	32	762.5	33			75.65
877.5	67.75	32.25	759.25	32.5		28	75.5
878	67.5	32.5	757	32			75.3
878.5	67.25	32.75	753.75	31.5	29.5	27.91	75
879	67	33	751.5	31			74.8
880	66.5	33.5	746	30			74.3
881	66	34	742	29.5	29	27.44	74
882	65.5	34.5	738	29			73.7
883	65	35	733.5	28.5		27	73.35
883.5	64.83	35.17	731.25	28.25	28.5	26.99	73.17
884	64.67	35.33	729	28			
885	64.33	35.67	724	27.5			72.5
886	64	36	719	27	28	26.53	72
887	63.67	36.33	714	26			71.5
888	63.33	36.67	709	25			71
889	63	37	704	24.5	27.5	26.07	70.65
890	62.5	37.5	699	24			70.3
891	62	38	694	23			69.8
892	61.5	38.5	689	22	27	25.61	69.3
893	61	39	644.5	21			69
894	60.67	39.33	680	20			68.7
895	60.33	39.67	675.5	19.5			68.35
895.5	60.16	39.84	673.25	19.25	26.5	25.15	68.17
896	60	40	671	19		25	68
897	59.5	40.5	666.5	18			67.65
898	59	41	662	17	26	24.69	67.3
899	58.5	41.5	655.5	16			67
900	58	42	649	15			66.7
900.5	57.75	42.25	647	14.75	25.5	24.23	66.52
901	57.5	42.5	645	14.5			66.35
901.5	57.25	42.25	643	14.25		24	66.17

Sp. gr. at 60° Fah.	100 parts contain of		1000 parts contain of standard alc. sp. gr. 825.	Sikes.	Baumé.	Cartier.	Per cent. of alcohol, sp. gr. 796 by volume. Gay Lussac.
	Alcohol sp. gr. 796.	Water.					
	By weight.						
902	57	43	641	14	O. P.		66
903	56.5	43.5	636	13			65.5
904	56	44	631	12	25	23.77	65
905	55.5	44.5	626	11.5			64.5
906	55	45	621	11	24.5	23.31	64
907	54.5	45.5	616.5	10.5			63.65
908	54	46	612	10		23	63.3
909	53.5	46.5	607	9	24	22.85	62.65
910	53	47	602	8			62.3
911	52.5	47.5	595.5	7.5			61.9
912	52	48	591	7	23.5	22.39	61.5
913	51.67	48.33	586	6			61
914	51.33	48.67	581	5			60.5
915	51	49	576	4	23	21.94	60
916	50.5	49.5	571	3			59.6
917	50	50	560.5	2			59.3
918	49.67	50.33	562	1	22.5	21.48	59
919	49.33	50.67	554	.5			58.5
920	49	51	550	Proof			58
921	48.5	51.5	545	1	U. P.	22	57.5
922	48	52	540	2		21.02	57
923	47.5	52.5	535.5	3	21.5	20.56	56.5
924	47	53	531	4			56
925	46.5	53.5	526	5			55.5
926	46	54	521	6	21	20.10	55
927			515.5	6.5			
928	45	55	510	7			54
929	44.5	55.5	505	8			53.5
929.5	44.25	55.75	502.5	8.5	20.5	19.64	53.25
930	44	56	500	9			53
931	43.67	56.33	495.5	10			52.5
932	43.33	56.67	489	11			52
933	43	57	484	12	20	19.18	51.5
934	42.5	57.5	479	13		19	51
935	42	58	472.5	14			50.5
936	41.5	58.5	468	15	19.5	18.72	50
937	41	59	462	16			49.5
938	40.5	59.5	456	17			49
939	40	60	450	18	19	18.26	48.5
940	39.5	60.5	444	19			48
940.5	39.25	60.75	441	19.5		18	47.63
941	39	61	438	20			47.25
942	38.5	61.5	432	21	18.5	17.80	46.5
943	38	62	426.5	22			45
944	37.5	62.5	421	23			45.5
945	37	63	416	23.5	18	17.35	44.75
946	36.5	63.5	411	24			44
947	36	64	399	25		17	43.5
948	35.5	64.5	397	26	17.5	16.89	43
949	35	65	389.5	27			42.25
950	34.5	65.5	382	28			41.5
951	34	66	376	29.5	17	16.43	40
952	33.5	66.5	370	31			40.5

Sp. gr. at 60° Fah.	100 parts contain of		1000 parts contain of standard alc. sp. gr. 825.	Sikes.	Baumé.	Cartier.	Per cent. of alcohol, sp. gr. 796 by volume. Gay Lussac.
	Alcohol sp. gr. 796.	Water. By weight.					
953	33	67	364	32.5 U. P.			39.75
954	32.5	67.5	358	34			39
955	32	68	352	35	16.5	16.3	38.5
956	31.5	68.5	346	36		16	38
957	31	69	339.5	37.5			37.25
958	30	70	333	39			36.5
959	29.5	70.5	324	40.5	16	15.51	35.75
960	29	71	315	42			35
961	28.5	71.5	307.5	43.5			34.5
962	28	72	300	45	15.5	15	34
963	27	73	292.5	46.5			33
964	26.5	73.5	285	48			32
965	26	74	277.5	49.5	15	14.59	31
966	25.5	74.5	270	51			30
967	25	75	261.5	52.5			29
968	24	76	253	54			28
968.5	23.75	76.25			14.5	14.13	27.5
969	23.5	76.5	244.5	55.5			27
970	23	77	236	57			26
971	22.5	77.5	227	58.5			25
972	22	78	218	60	14	13.67	24
973	21	79	209	62			23
974	20	80	200	64			22
975	19	81	195	66	13.5	13.21	21
976	18.5	81.5	190.5	68			20
977	18	82	183.5	70			19
978	17	83	175	72	13	12.76	18
979	16	84	163	73.5			17
980	15.5	84.5	150	75			16
981	15	85	143	76			15
982	14	86	135	77	12.5	12.30	14
983	13.5	86.5	128	78.5			13
984	13	87	120	80			12
985	12.5	87.5	112	81			11.25
986	12	88	105	82	12	11.84	10.5
987	11	89	98	83.5			9.75
988	10	90	90	85			9
989	9	91	82	87	11.5	11.38	8
990	8	92	75	89			7
991	7	93	67.5	90.5			6.5
992	6	94	60	92			6
993	5.5	94.5	52.5	93.5	11	10.92	5
994	5	95	45	95			4
995	4	96	37.5	95.5			3.5
996	3.5	96.5	30	96	10.5	10.46	3
997	3	97	22.5	97			2
998	2	98	15	98			1
999	1	99	7.5	99			.5
1000	0	100	0	100	10	10	0

# SPECIFIC GRAVITIES OF SOME OF THE PREPARATIONS ORDERED IN THE PHARMACOPŒIAS.

The London Pharmacopœia directs the Specific Gravity to be taken at a temperature of 62° Fahr. The Edinburgh, Dublin, and U.S. Pharmacopœias at 60° Fahr.

						Sp. gr.
Acetum Destillatum	-	-	-	-	Edin.	1.005
	-	-	-	-	Dublin	1.005
Acidum Aceticum	-	-	-	-	London	1.048
	-	-	-	-	U.S.	1.063
	-	-	-	-	Edin.	to
	-	-	-	-	Dublin	1.068
	-	-	-	-	Dublin	1.074
———— Dilutum	-	-	-	-	Dublin	1.005
———— Hydrochloricum	-	-	-	-	London, U.S.	1.160
	-	-	-	-	Edin.	1.170
	-	-	-	-	Dublin	1.160
———— Dilutum	-	-	-	-	Edin.	1.050
	-	-	-	-	U.S.	1.046
	-	-	-	-	Dublin	1.080
———— Hydrocyanicum	-	-	-	-	Dublin	.998
———— Nitricum	-	-	-	-	London, U.S.	1.500
	-	-	-	-	Edin.	1.500
———— Dilutum	-	-	-	-	London, U.S.	1.080
	-	-	-	-	Edin.	1.077
	-	-	-	-	Dublin	1.280
———— Phosphoricum Dilutum	-	-	-	-	London	1.064
———— Sulphuricum	-	-	-	-	London, U.S.	1.845
	-	-	-	-	Edin.	1.845
	-	-	-	-	Dublin	1.845
———— Sulphuricum venale	-	-	-	-	Dublin	1.850
———— Sulphuricum Dilutum	-	-	-	-	London	1.110
	-	-	-	-	Edin. U.S.	1.090
	-	-	-	-	Dublin	1.084
Æther Nitrosus	-	-	-	-	Dublin	0.900
———— Sulphuricus	-	-	-	-	London, U.S.	0.750
	-	-	-	-	Edin.	0.735
	-	-	-	-	Dublin	0.766
Alcohol	-	-	-	-	London	0.815
	-	-	-	-	U.S.	0.835
	-	-	-	-	Edin.	0.796
	-	-	-	-	Dublin	0.810
———— Dilutum	-	-	-	-	U.S.	0.935
Aqua Destillata	-	-	-	-	L. E. D.	1.000
———— Ammoniæ	-	-	-	-	Edin.	0.960
	-	-	-	-	Dublin	0.950
———— Acetatis	-	-	-	-	Edin.	1.011
	-	-	-	-	Dublin	1.011
———— Ammoniæ Carbonatis	-	-	-	-	Dublin	1.090
———— Barytæ Muriatis	-	-	-	-	Dublin	1.230
———— Calcis Muriatis	-	-	-	-	Dublin	1.202
Aqua Potassæ	-	-	-	-	Edin.	1.072
	-	-	-	-	Dublin	1.080
———— Carbonatis	-	-	-	-	Dublin	1.320
———— Potassii Sulphureti	-	-	-	-	Dublin	1.117
———— Sodæ Carbonatis	-	-	-	-	Dublin	1.024



						Sp. gr.
Liquor Ammoniaë	-	-	-	-	London	0.960
———— Fortior	-	-	-	-	London, U.S.	0.882
———— Plumbi Diacetatis	-	-	-	-	London	1.260
———— Potassæ	-	-	-	-	London	1.063
———— Carbonatis	-	-	-	-	London	1.473
Oleum Æthereum	-	-	-	-	London	1.05
————	-	-	-	-	U.S.	1.096
Spiritus Æthereus Nitrosus	-	-	-	-	Dublin	0.850
———— Ætheris Nitrici	-	-	-	-	London, U.S.	0.834
————	-	-	-	-	Edin.	0.847
———— Sulphurici	-	-	-	-	Edin.	0.809
———— Ammoniaë	-	-	-	-	London	0.860
————	-	-	-	-	U.S.	0.831
———— Aromaticus	-	-	-	-	London	0.914
———— Fœtidus	-	-	-	-	London	0.861
———— Rectificatus	-	-	-	-	London	0.838
————	-	-	-	-	Edin.	0.838
————	-	-	-	-	Dublin	0.840
———— Tenuior	-	-	-	-	London	0.920
————	-	-	-	-	Edin.	0.912
————	-	-	-	-	Dublin	0.919
Tinctura Ferri Sesquichloridi	-	-	-	-	London	0.992

## RELATION BETWEEN DIFFERENT THERMOMETRICAL SCALES.

The thermometer always used in this country is that of Fahrenheit; it is also used in parts of Germany.

In this instrument, the range between the freezing and boiling points of water is divided into 180°, and as the greatest possible degree of cold was supposed to be that produced by mixing snow and salt together, it was made the zero. Hence, the freezing point became 32°, and the boiling point 212°.

The Centigrade thermometer places the zero at the freezing point of water, and divides the range between the freezing and boiling points into 100°. This scale has long been used in Sweden, under the title of Celsius's thermometer, and is generally adopted on the Continent.

Reaumur's thermometer, which was formerly used in France, divides the space between the freezing and boiling points of water into 80°, and places the zero at the freezing point. It is now little employed.

Le Lisle's thermometer is used in Russia. The graduation begins at the boiling point, and increases towards the freezing point. The boiling point is marked 0°, and the freezing point 150°.

*To reduce Centigrade degrees to those of Fahrenheit.*

RULE.—Multiply by 9, divide by 5, and add 32.

$$\text{Thus, } \overset{\text{Cent.}}{40} \times 9 \div 5 + 32 = \overset{\text{Fahr.}}{104}.$$

*To reduce Fahrenheit's degrees to those of Centigrade.*

RULE.—Subtract 32, multiply by 5, and divide by 9.

$$\text{Thus, } \overset{\text{Fahr.}}{104} - 32 \times 5 \div 9 = \overset{\text{Cent.}}{40}.$$

*To reduce Reaumur's degrees to those of Fahrenheit.*

RULE.—Multiply by 9, divide by 4, and add 32.

$$\text{Thus, } \overset{\text{Reaumur.}}{32} \times 9 \div 4 + 32 = \overset{\text{Fahr.}}{104}.$$

*To reduce Fahrenheit's degrees to those of Reaumur.*

RULE.—Subtract 32, multiply by 4, and divide by 9.

$$\text{Thus, } 104^{\text{Fahr.}} - 32 \times 4 \div 9 = 32^{\text{Reaum.}}$$

*To reduce Reaumur's degrees to those of Centigrade.*

RULE.—Multiply by 5, and divide by 4.

$$\text{Thus, } 32^{\text{Reaum.}} \times 5 \div 4 = 40^{\text{Cent.}}$$

*To reduce Centigrade degrees to those of Reaumur.*

RULE.—Multiply by 4, and divide by 5.

$$\text{Thus, } 40^{\text{Cent.}} \times 4 \div 5 = 32^{\text{Reaum.}}$$

## EXPLANATION OF THE PRINCIPAL ABBREVIATIONS OCCURRING IN PHARMACEUTICAL FORMULÆ.

R. Recipe—Take.

F. S. A. Fiat secundum artem—Let it be made or prepared according to the rules of the art.

M. Misce—Mix.

M. S. D. Misce, signa, da—Mix the medicine, and deliver it afterwards, with the requisite instruction, to the patient (or nurse) in writing.

M. F. P. Misce fiat pulvis—Mix to form a powder.

M. F. Mixt. Misce fiat mixtura—Mix to form a liquid mixture.

M. F. Pil. Misce fiant pilulæ—Mix to form pills.

Div. Divide—Divide.

Sol. Solve—Dissolve.

Fasc. j. Fasciculus—An armful.

Man. j. Manipulus—A handful, a gripe.

Pugil. j. Pugillus or Pugillum—A pinch.

Cyat. j. Cyathus—A glassful.

Cochl. j. Cochlear or cochleare—A spoonful.

Gutt. Gutta—Drop.

No. 1, 2, 3, &c. The number of pieces or parts.

Ana, or āā. Of each.

P. Ae. Partes æquales—Equal parts.

Q. S. Quantum sufficit—As much as will suffice.

Q. L. Quantum libet—As much as you like.

Q. V. Quantum volueris—As much as you like.

℔. Libra—A pound.

ʒ. Uncia—An ounce.

ʒ. Drachma—A drachm or dram.

ʒ. Serupulus—A scruple.

Gr. Granum—A grain.

Pil. Pilula—A pill.

Pot. Potio—A potion.

Pulv. Pulvis—A powder.

Tinc. Tinctura—A tincture.

Ext. Extractum—An extract.

Chart. Chartula—A small paper.

Collyr. Collyrium—An eye water.

Collutor. Collutorium—A mouth wash.

Cong. Congius—A gallon.

O. Octarius—A pint.

f $\bar{z}$ . Fluiduncia—A fluidounce.  
 f $\bar{z}$ . Fluidrachma—A fluidrachm.  
 m. Minimum—A minim.  
 Decoet. Decoction—A decoction.  
 Garg. Gargarisma—A gargle.  
 Haust. Haustus—A draught.  
 Infus. Infusum—An infusion.  
 Mass. Massa—A mass.  
 Mist. Mistura—A mixture.  
 Ss. Semis—A half.

The use of the Latin language for prescriptions and for the accompanying directions is universal in Europe, except in France, where, although the prescription itself may be in Latin, the directions are usually given in French; this is also the case in the United States, where few, if any, physicians give the directions for the use and mode of administration of a formula in any other language than English. As, however, it often becomes of importance to refer to the prescriptions of foreign practitioners, the following table, from Mowbray's *Conspectus*, is introduced:—

## A VOCABULARY

*Of the Words most frequently occurring in the Prescriptions of Physicians.*

### A.

A,  $\bar{a}\bar{a}$ , or ana, of each ingredient; more promptly expressed by the genitive case plural (singulorum) of each; for instance:

R.—Aquæ cinnamon, tinct. rhei,  $\bar{a}\bar{a}$   $\bar{z}$ ij, means

Take of cinnamon-water, and tincture of rhubarb, of each two drachms.

Abdomen, the belly. Gen.—inis, of the belly. Dat.—ini, to the belly.

Absente febre, while the fever is off.

Accuratè (adverb), accurately. Accuratè pensi, weighed with the utmost exactness.

Accuratè misceantur, mix very completely.

Aciditas, sharpness. Ad gratam aciditatem, make it just acid enough to be palatable, and not to sour.

Aemè, the height of a fever or any other disease.

Ad, to. Ad duas vias, at twice taking. Ad libitum, as you like.

Adde, add. Addantur, let there be added. Addendus, to be added. Addendo, adding.

Admovcatur, let there be applied—antur, plural, when more than one is to be applied.

Adstante febre, while the fever is on.

Æger, a sick person, a patient. Ægra, a female patient.

Aggrediente febre, when the fever is coming on.

Aggressus, an attack. Aggressus febris, the attack of a fever.

Agitato vasè, shaking the phial.

Albus, white.

Aliquot, some. Aliquoties, sometimes.

Alter, altera, alterum, the other.

Alternus, alternatè. Alternis horis, every second hour. Alternis diebus, every alternate day.

Aluta, leather. Extende super alutam mollem, spread on soft leather.

Alvus, the belly, the bowels. Adstrictâ alvo, when costive.

Amplus, large. Cochleare amplum, a tablespoonful.

Antè, before. Ut antè, as before.

Antemeridianus, in the forenoon; any time before twelve o'clock at noon.

Apparatus, any sort of preparation, instruments, or, in short, everything that is requisite to be had in readiness for performing any sort of operation. Also, the more delicate term for a bladder and pipe for clysters.

Aperiens, opening, gently purging.

Applicetur, let there be applied.



Aqua, water. Aquæ, of water. Aqua bulliens, Aqua fervens, boiling water.  
 Armatus, armed. Fistula armata, an apparatus for clysters; a pipe and bladder.  
 Auris, the ear. Auri, to the ear. Aures, ears. Auribus, to the ears.  
 Aut, or.

## B.

Benè, well.  
 Bibat, let him drink.  
 Biduum, two days. Omni biduò vel triduò, every two or three days.  
 Bihorium, the space of two hours. Omni bihorio, every two hours.  
 Bis, twice; bis, tervè, twice or thrice.  
 Bullio, to boil; bulliens, boiling. Aquæ bullientis, of boiling water.  
 Bulliant, let them boil.

## C.

Calefactus, made warm.  
 Capiat, let (the patient) take. Capt. cochl. iij magn., three tablespoonfuls to be taken.  
 Catharticus, purging.  
 Cautè, cautiously.  
 Cerevisia, beer. Cerevisia Londinensis, porter.  
 Charta, paper. Charta cærulea, blue paper. Chartula, a little picce of paper. Cola  
 trans chartam, filter through paper.  
 Cibus, food.  
 Circa, about. Circiter, about.  
 Citò, soon, quickly. Citissimè (the superlative degree), as quick as possible.  
 Clausus, clausa, clausum, covered. Vase clauso, in a covered vessel.  
 Cochleare, a spoonful. Cochlearia, spoonfuls. Coch. magnum, amplum, a table-  
 spoonful. Co. infantulorum, coch. modicum, child's spoonful, a dessertspoonful.  
 Co. parvum, a teaspoonful.  
 Coctio, a boiling. Sub finem coctionis, towards the end of the boiling, when almost  
 boiled.  
 Cæruleus, blue. Charta cærul., blue paper. Unguentum cærulcum, mercurial oint-  
 ment.  
 Cola (imperat. of Colo), strain, to filter.  
 Colatus, strained, filtered. Colato liquori, to the strained liquor.  
 Colatura, a straining. Colaturæ, to the strained liquor.  
 Colatus, let be strained. Colentur, let them be strained.  
 Collum, a neck.  
 Comp., Compositus, compound.  
 Continuo, to continue. Continuatur remedia, go on with the same medicines as last  
 prescribed.  
 Contundo, to bruise. Contusus, bruised.  
 Contusio, a bruise, a contusion.  
 Coquo, to boil. Coque, boil. Coque parùm, boil a little while.  
 Coquantur, let them be boiled.  
 Cor, the heart. Scrobiculus cordis, the pit of the stomach.  
 Coxa, coxendix, the hip.  
 Cras, to-morrow; c. m., cras mane, early to-morrow morning; c. m. s., cras mane  
 sumendus, to be taken early to-morrow morning.  
 Crastinus (adj.), of to-morrow. In usum crastinum, for to-morrow's use.  
 Cribrum, a sieve. Trans cribrum, through a sieve.  
 Cujus, of which. Cujus capiat, orumat, of which (the patient is to) take.  
 Cum, with.  
 Cyathus, a cup. Cyathus vinarius, a wineglass. Cyath. theat, a teacup full.

## D.

Da, give. Detur, dentur (plural), let be given.  
 De, of. De quo, or quâ, of which. De die, in a day.

Deauratus, gilt. Deaurentur pilulæ, let the pills be gilt.

Debilitas, weakness.

Decem, ten. Decimus, the tenth.

Debitus, due. Ad debitam spissitudinem, to a proper degree of thickness, as to consistence.

Decubitus, lying down. Horâ decubitûs, at bedtime.

Deglutio, to swallow. Deglutiatur, is swallowed—etur, let be swallowed.

Dein, deinde, then; afterwards.

Dejectio, a depositing, or putting down, also a going to stool; as, post duas dejectiones alvi, after two motions.

Dejitio, to deposit. Donec alvus bis dejeciat, until the patient shall have had two stools.

Dexter, the right. Manus dextra, the right hand. Auri dextro, to the right ear.

Dictus, spoken of, said.

Dies, a day. Die, in a day; as, bis die, twice a day. Diebus, in days; as, tertiis diebus, every third day. Alternis diebus, every alternate day.

Dilutum, diluted.

Dimidium, the half. Dimidius, a, um (adjective), half.

D.P., Directione propria, with its proper direction.

Diu, a long time. Tere diu, rub for a long time.

Diurnus, long continued. Diurnâ trituratione, by long-continued rubbing, or grinding in the mortar. Diurna coctione, by long boiling.

Dolor, pain. Dolores, pains. Doloris, of the pain.

Dolens, pained. Parti dolenti, to the pained part.

Donec, until. Dum, whilst.

Durante dolore, while the pain continues.

#### E.

Eadem, eandem, the same. Eodem, in the same.

Effunde, pour out.

Effervescencia, the effervescence.

Effervescet, effervesces.

Ejusdem, of the same, the genitive case of idem.

Enema, a clyster. Enemata, clysters.

Erit, shall be.

Evaneseo, evanui, to disappear. Evanuerit, shall have disappeared.

Exhibe, exhibeatur, give. Exhibendus, to be given.

Extendo, to extend, also to spread. Extende super alutam, spread it on leather.

Extensus, a, um, spread.

#### F.

Fac, make. Fac in pilulas xij, make into twelve pills.

Farina, flour. Farina seminis lini, linseed meal.

Febris, a fever. Febre durante, while the fever is on.

Femur, a thigh.

Femoribus, to the thighs. Femoribus internis, to the inner sides of the thighs.

Fervens, boiling. Fervidus fervida, hot.

Ferventis, of boiling. R aq. ferventis, take of boiling water.

Finis, the conclusion. Sub finem coctionis, when almost boiled enough.

Fiat, make (the singular number). Fiant, make (plural).

Fontana, fountain. Aqua fontana, spring water.

Formula, prescription.

Fotus, a fomentation.

Fuerit, shall have been; as, donec alvus soluta fuerit, until a motion is (or shall have been) procured.

#### G.

Gargarisma, a gargle.

Gelatina, jelly. Gelatina ribesiorum, currant jelly. Gelatina quovis, any sort of jelly.

Globulus, a little ball. Globuli Gaseoigni, Gaseoigni's ball. Donec globuli evanuerint, until the globules (of quicksilver) totally disappear (so that they cannot be seen even with a microscope).

Gradatim, by slow degrees.

Gratus, grata, gratum, agreeable, pleasant. Ad gratam aciditatem, so as to make it pleasantly acid without being too sour. In quovis grato vehiculo, in any agreeable vehicle.

Gutta, a drop. Guttæ, drops. Guttas, drops.

Guttatim, drop by drop.

## II.

Hac, this. Hac nocte, this night. Hanc, this. Sumat hanc, let him take this.

Haetenus, hitherto, heretofore, up to the present day.

Harum, of these. Harum pilularum sumat tres, of these pills let him or her take three.

Haustus, a draught.

Hebdomada, a week.

Heri, yesterday. Ut heri, as yesterday.

Hesternus, of yesterday. Hesternæ nocte, last night.

Hirudo, a leech. Hirudines, leeches.

His, in these, to these. His adde, add to these.

Hora, an hour. Horæ, of an hour. Horæ (plural), hours.

H.S. (horâ somni), at the hour of rest.

H.S.S. (horâ somni sumendus), to be taken at bedtime. Hora decubitus, at the hour of going to rest, bedtime.

Horâ vespertinâ, in the evening.

Horæ unius spatio, in the space of one hour.

Horæ  $\frac{1}{4}$ , horæ quadrante, quarter of an hour.

Horis intermediis, at intermediate hours, when two medicines are to be taken. Horis intermediis means that one is to be given exactly at midtime from the other: suppose a draught is ordered (to be taken every six hours), and a powder horis intermediis, that is every six hours intermediately, then a draught will be taken at six o'clock and at twelve, and a powder at three and at nine.

Hujusmodi, of this sort, like these.

H. p. n., Haustus purgans noster, a formula of purging draught made according to a practitioner's own private Pharmacopœia, and is prepared so as to keep a long time without spoiling, that we may not have the trouble of preparing it every time a draught is wanted. Mitt. H. p. n.  $\frac{3}{4}$ ij ad ij Vices c. m. s. Mitte Haustus purgantis nostri uncias duas, ad duas Vices cras mane sumendus; send two ounces of our purging draught, to be taken to-morrow morning, at twice, that is half at first, and the remaining half in an hour if the first do not operate.

## I.

Idoneus, proper, appropriate.

Idem, eadem, the same. Ejusdem, of the same, the genitive case of idem.

Imponatur (sing.), let there be put on—nantur (plural).

Imprimis, first.

In, in. In die, in a day.

Indiè (an adverb), every day, daily.

Indicaverit, shows, indicates.

Infusio, infusum, an infusion.

Infunde, infundatur, infuse.

Inter, between.

Injectio, injection.

Inquietudo, restlessness. Ungente inquietudine, if restless.

Injiciatur, throw in, throw up. Injiciatur enema, let a elyster be administered.

Injiciendus, injiciendum, to be administered.

Instar (an adverb), as big as. Sumat molem instar mucis moschatae, the bigness of a nutmeg to be taken.

Intermedius, intermediate.

Internus, the inner side.

## J.

Jam, already. Jampridem, jamdudum, some time ago, heretofore.

Jugulum, the throat.

Juseulum, broth. Juseulum ovillum, mutton broth. Jus bovinum, beef tea.

Juxta, near to.

## L.

Lae, milk. Lactis, of milk. Laete, in milk.

Laevigatus, levigated.

Lana, flannel. Lana nova, new flannel.

Languor, faintness, lowness. In languoribus, in the fainting fits, when low and faint.

Latus, the side. Lateris, of the side. Lateri, to the side. Latus dolens, the pained side. Lateri dolenti, to the pained side.

Latus, lata, latum (adjective), broad.

Lectus, a bed. In lecto, in bed.

Liber, a book.

Libra, a pound. Libris, libras, pounds.

Linteum, lint; also linen.

Liquesco, to liquefy, to melt. Donec liquescat, till it melts.

Liquidus, liquid. Sedes liquidæ, loose stools. In quovis liquido, in any liquid.

Londinensis, of London. Pharmacopœia Londinensis, the London Dispensatory.

Lumborum, of the loins.

Libet (a verb impersonal), it pleases. Ad libitum, just as you please.

## M.

Magnus, magna, magnum, large. Magnum coehleare, a tablespoonful.

Major, greater, larger. Coehlearia duo majora, two tablespoonfuls.

Maximus, the greatest. Maximâ curâ, with the greatest care.

Maximè, chiefly.

Malleolus, the ankle. Malleolus internus, the inner ankle.

Manè, in the morning. Manè primo; valde mane, very early in the morning.

Manus, a hand. Manu calefacta, with a warm hand.

Massa, a mass. Massa pilularis, a mass fit for forming into pills.

Matutinus, in the morning or forenoon.

Medioeris, middle-sized. Pilulæ medioeres, middle-sized pills. Coehleare mediocre, a dessertspoonful, a pap-spoonful, or a child's spoonful. Medioeris also means indifferent, as to quality.

Medius, middle. Media nocte, in the middle of the night.

Melior, melius, better.

Minatur, minaretur, threatens. Minante, threatening.

Minimus, very small. Coehleare minimum, a teaspoonful.

Minutum,\* a minute.

Misce, mix. Bene misceatur, let it be well mixed.

Mite, send.

Mittatur (singular), let it be sent. Mittantur (plural), let them be sent.

Mittatur sanguis, take blood away; *i. e.*, bleed the patient.

Mistura, mixtura, a mixture.

Mitigatio, mitigation, alleviation. Donec dolor is mitigatio sit, until the pain is easier.

Mitigatus, a, um, mitigated, lessened.

\* The word minutum, for a minute, is very barbarous Latin; we believe there is no such word; but the right Latin for a minute, Sexagesima pars horæ, is as long and as tiresome to write as "Semivitreous oxide of lead" for the simple word "Litharge."

Modieus, middle-sized.

Modus, a manner. *Modo præscripto*, in the manner directed.

Moles, a mass, a lump, a piece. *Sumat molem instar nucis moschatae*, let him (or her) take the bigness or size of a nutmeg.

Mollis, molle, soft.

Molestus, troublesome. *Molestor*, to trouble, to be troublesome. *Molestante dolore*, when the pain is troublesome. *Molestante tussi*, when the cough is troublesome.

Mora, delay. *Sine morâ*, without delay.

Mos, moris, manner. *More solito*, in the usual manner; also, in the same manner as I am in the habit of prescribing it to other people.

Mortarium, a mortar. *Mortario aheneo*, in the brass mortar. *Mortario marmoreo*, in the marble mortar. *Mort. vitreo*, in the glass mortar.

## N.

Nartheecium, a gallipot.

Nates, the buttocks.

Ne, lest, also, do not; as, *ne tradas sine nummo*, do not deliver the medicine without the money.

Neeon, also.

Niger, nigra, nigrum, black.

Ni, nisi, unless.

Nihil, nothing.

Nisus, an endeavor, an attempt, a straining, a motion, a straining to vomit, or go to stool.

Nimis, nimium, too much.

Nodulus, a little knot. *Nodulo ligati*, tied up in a piece of clean rag.

Nomen, nominis, a name. *Signetur nomine proprio*, write its common name upon the label.

Novem, nine.

Nonus, the ninth.

Novus, nova, novum, new.

Novissimè, very lately, the last of all.

Noete, at night. *Noctes*, nights. *Noete maneque*, night and morning. *Alternis noctibus*, every second night.

Nuper, lately. *Nuperrime*, very lately,

Nucha, the nape of the neck. *Nuchæ*, to the nape.

N.M., *Nux moschata*, a nutmeg. *Sumat magnitudinem nucis moschatae*, take the bigness of a nutmeg.

## Numeri. Numbers.

- |    |       |                             |
|----|-------|-----------------------------|
| 1. | or j. | unus, una, unum, one.       |
|    |       | unius, of one.              |
| 2. | ij.   | duo, duæ, two.              |
|    |       | duorum, of two.             |
|    |       | duobus, in two, to two.     |
| 3. | ijj.  | tres, tria, three.          |
|    |       | tribus, in three, to three. |
|    |       | trium, of three.            |
|    |       | ter, three times.           |
| 4. | iv.   | quatuor, four.              |
|    |       | quartus, a, um, fourth.     |
|    |       | quater, four times.         |
| 5. | v.    | quinque, five.              |
|    |       | quintus, fifth.             |
| 6. | vj.   | sex, six.                   |
|    |       | sextus, sixth.              |

- |     |         |                    |
|-----|---------|--------------------|
| 7.  | or vij. | septem, seven.     |
|     |         | septimus, seventh. |
|     |         | septimana, or,     |
|     |         | 7 mana, a week.    |
| 8.  | vijj.   | octo, eight.       |
|     |         | octavus, eighth.   |
| 9.  | ix.     | novem, nine.       |
|     |         | nonus, ninth.      |
| 10. | x.      | decem, ten.        |
|     |         | decimus, tenth.    |
| 11. | xj.     | undecim, eleven.   |
| 12. | xij.    | duodecim, twelve.  |
| 20. | xx.     | viginti, twenty.   |
| 24. | xxiv.   | viginti quatuor,   |
|     |         | twenty-four.       |



## O.

Obstante, hindering, preventing.

Oecasio, occasion, opportunity.

Octo, eight.

Octavus, eighth. Octava quaque horâ, every eighth hour.

Olim, some time ago.

Olla, a pot, a gallipot.

Omnis, all. Omni mane, every morning. Omni horâ, every hour. Omni bihorio, every two hours. Omni nocte, every night. Omni  $\frac{1}{4}$  horâ, Omni quadrante horæ, every quarter of an hour. Tere omnia, rub all together.

Omninò, quite, wholly; entirely.

Optimè, very well, as well as possible.

Optimus, ma, mum, best.

Opus, need, occasion. Si opus sit, or fuerit, if it be necessary.

Ovillum juseculum, mutton broth.

Ovum, an egg. Vitell. ovi, the yolk of an egg. Ovorum, of eggs.

## P.

Pannus, a rag. Pannus linteus, a linen rag. Pannus laneus, Pannus è lanâ, a piece of flannel.

Paroxysmus, a paroxysm, a fit, a convulsion fit.

Pars, a part. Partes, parts. Parti dolenti, to the pained part.

Partitus, parted. Partitus vicibus means that you are not to give a medicine all at once, but divide the dose according to the directions most commonly previously given; for example, if a purging or emetic draught, half or a third (as the case may be) to be taken at first, and the other half or third at a certain distance of time, if the former quantity be not found sufficient to produce the desired effect.

Parvus, little. Cochleare parvum, a teaspoonful.

Parum, a little. Parumper, a little.

Pauculum, pauxillum, paululum, a little.

Pectus, the breast. Pectoris, of the breast.

Pediluvium, a bath for the feet.

Per, by, or through.

Pergo, to go on with. Pergat in usu medicinarum, continue the medicines as before.

Peractus, { completed, perfected, quite done, gone through with; as, Peraetâ ope-

Perfectus, { ratione emetici, after the emetic has quite done operating.

Perfricetur, let it be rubbed. Perfricandus, to be rubbed.

Pensus, weighed. Accuratè pensi, exactly weighed.

Perpetuus, perpetual. Fiat perpetuum, keep it open (when it refers to a blister).

Pluvialis, also pluvialis aqua, rain-water.

Pharmacopœia, the dispensatory.

Pollex, the thumb. Pollex pedis, the great toe.

Pomeridianus, postmeridianus, in the evening or afternoon, time of the day.

P. R. N., Pro re natâ, occasionally, according as circumstances may occur, according as the symptoms may require.

Poculum, a cup.

Pomum, an apple. Pomi, of an apple.

Pone, behind. Pondere, by weight.

Porro, moreover. Post, after. Postea, then, afterwards.

P. M., Post meridiem, afternoon, in the afternoon, after twelve o'clock at noon.

Potus, drink, any kind of beverage.

Postulet, postulent, may require, demand.

Præcipue, especially.

Præparatus, prepared.

Præparo, to prepare. Præparentur, let them be prepared.

Primus, ma, mum, the first. Primò, first of all. Primo mane, very early in the morning.  
 Prior, prius, the former, the first.  
 Priusquam, before that.  
 Pro, for. Pro re natâ, p. r. n., oceasionally, &c. Pro ratione, according to, or, in proportion to; as, pro ratione ætatis, according to the age of the patient.  
 Proprius, a, um, proper. S. N. P., Signetur nomine proprio, mark it with its proper direction.  
 Pruritus, an itching. Pruriens, itehing. Dolichos pruriens, cowhage.  
 Psora, the itch.  
 Pulvis, a powder. Pulveres, powders. Pulveribus, in powders.  
 Purificatus, a, um, purified.  
 Pyxis, pyxidis, a pill-box, or lozenge-box.

## Q.

Quadrans, quadrantis, quadrante, quarter. Omni quadrante horæ, every quarter of an hour.  
 Quacum, with which.  
 Quamprimum, as soon as possible, without the least delay.  
 Quartus, a, um, the fourth.  
 Quâqua, every. Quâvis (fœm), with any.  
 Quater, four times. Quatuor, four. Quarta pars, a fourth part.  
 —que (at the end of any Latin word), and.  
 Quem, quam, quod, which (the accusative case).  
 Qui, quæ, quod, which (the nominative case).  
 Quibus, to which, with which.  
 Quibusdam, to or with some. Cum guttis quibusdam, with a few drops.  
 Quilibet, quælibet, quodlibet, gen. Cujuslibet, abl. Quolibet, any.  
 Quiescat, goes to rest, is easier.  
 Quinque, five. Quintus, a, um, the fifth. Quinquies, five times.  
 Quinquina (cinchona), Peruvian bark.  
 Q. S.—q. s., Quantum sufficiat, as much as may be sufficient.  
 Quorum, quarum, of which. Quos, quas, which. Quocum, quacum, with which.  
 Quovis, with any.

## R.

Ratio, a reason, also a proportion. Pro ratione ætatis, according to the age of the patient. Pro ratione doloris, according to the urgency of the pain.  
 Raucedo, hoarseness.  
 Recipe, take. Recipe (taken substantively), a prescription.  
 Regio, a region (an anatomical term for certain parts of the body); as, regio epigastrica, the epigastric region; regio lumborum, the region of the loins; appl. emplastr. regioni umbilicali, to the umbilical region or parts in the neighborhood of the navel.  
 Redigo, to reduce. Redige, reducee. Redigetur, may be reduced. Redigatur, let it be reduced.  
 Redactus, a, um, reduced. In pulv. redact., reduced to powder.  
 Refruxerit—pl. int—the subjunctive future of refrigescere, to cool.  
 Reliquus, a, um, the rest, the remaining part.  
 Remedium, a remedy. Continuandur remedia, go on with the same medicines as before.  
 Repetatur, let be repeated, repeat.  
 Repetendus, to be repeated.  
 Respondeo, responderit, shall have answered. Donec alvus ad sedes ij vel iij responderit, until two or three stools shall have been procured.  
 Ribes, currants. Gelatina ribesiorum, currant jelly.  
 Ruber, rubra, rubrum, red.

Rubus, idæus, raspberry.  
Retinendus, to be retained, or kept.

## S.

S.V.R., Spiritus vinosus rectificatus, rectified spirit of wine.  
S.V., Ten, or tenuis, proof spirit.  
Sæpe, often; sæpius, oftener; sæpissime, very often.  
Saltem, at least.  
Sanguis, blood—inis, of blood. Sanguinis missura, blood-letting.  
Saphena vena, the ankle vein.  
Scapula, the shoulder blade. Inter scapulas, between the shoulders.  
Scilicet, to wit, namely.  
Serobiculus cordis, the pit of the stomach.  
Secundus, a, um (adjective), second.  
Secundum (preposition), according to.  
S.A., Secundum artem, according to art; that is, you are to use your own ingenuity to do it in the most proper and scientific way.  
Sed, but.  
Sedes, a stool—plural, stools.  
Semi, or semis, half. Semihora, half an hour. Semi drachma, half a drachm.  
Sesqui, one and a half, as sesquihora, an hour and a half. Sesquiuncia, or sescuncia, an ounce and a half. Sesquidrachma, a drachm and a half. Remember well to attend to the difference of these two words, for many young men, by not knowing that sesqui means one and a half, but confounding it with semi, have made bad mistakes.  
Semper, always.  
Semel, once.  
Septem, seven.  
Septimana, a week, seven days. Septimus, seventh.  
Sequens, following.  
Serum lactis, whey. In sero lactis vinoso, in wine whey.  
Serum is also the watery part of the blood which separates from the red part, or crassamentum, on standing until cold.  
Sex, six; sextus, sixth.  
Si, if. Sive, or; whether.  
Signatura, a label or direction.  
Signetur, let it be marked, directed, written upon.  
S.N.P., Signetur nomine proprio, mark it with the name it is usually known by.  
Simul, together; as, terantur simul, let them be rubbed together. Simul ac, at the same time that.  
Sine, without. Sine morâ, without delay.  
Singultus, hiccup.  
Singulus, a, um, each; in singulis, in each; singulorum, of each.  
Sinister, tra, trum, the left. Auri sinistro, to the left ear.  
Satis, thirst; si sitiat, if thirsty.  
Solitus, accustomed.  
Solus, alone; only.  
Solutus, a, um, dissolved, also loosened; as, donec alvus soluta fuerit, until a stool is procured.  
Solve, dissolve.  
Somnus, sleep. Hora somni, at bed-time.  
Spina, the spine, the backbone; also, a thorn.  
Spissus, thick. Spissitudo, thickness of consistence.  
Statim, directly, immediately.  
Stent, let them stand. Stet, let it stand.  
Sternutatorius pulvis, sneezing powder, snuff.  
Stupa, tow.  
Sub, subter, under. Sub finem coctionis, when the boiling is almost finished. Sub,



prefixed to a word, implies diminution, or a process not completed; also, in many words has the same signification as the termination *ish* in English words, as *sub-niger*, blackish, not quite black. *Subtepidus*, lukewarm. For its meaning when applied to terms of chemistry, as *subcarbonas*, *submurias*, the pupil must study his chemical nomenclature.

*Subaetus*, a, um, subdued, dissolved.

*Subitus*, a, um, *Subitaneus*, sudden. *Subito* (adv.), suddenly.

*Subtepidus*, a little warm, lukewarm.

*Subige*, dissolve it, make it unite. *Subdue* quicksilver with lard or balsam of sulphur.

*Subinde*, frequently, now and then.

*Subtilis*, subtile, reduced to fine powder. *Pulv. subtilissimus*, the very finest powder.

*Sumat*, let him take. *Sumatur*, *sumantur*, let it be taken, take.

*Sudor*, sweat.

*Superbibo*, to drink after taking anything; as, chamomile tea or warm water after an emetic; or a cup of water or any liquid medicine to wash down a dose of any sort of pills.

*Superinfundo*, to pour upon.

*Supra*, above. *Supradietus*, above mentioned.

*Syncope*, a fainting fit.

## T.

*Tabellæ*, *tabulæ*, lozenges.

*Talis*, such. *Sumat talem*, let him take such a one as this.

*Talus*, the ankle.

*Tam*, so. *Tamen*, yet.

*Tætus*, the touch.

*Tænia*, the tapeworm.

*Tempus*, *temporis*, time.

*Tempora*, the temples. *Temporibus*, to the temples. *Tempori dextro*, to the right temple. *Tempori sinistro*, to the left temple.

*Temperies*, *temperamentum*, temperament, degree of heat.

*Tenacitas*, *tenacity*. *Ad debitam tenacitatem*, of a proper degree of tenacity or consistence.

*Teneo*, to hold. *Tenendus*, to be held.

*Tenuis*, weak, thin, small, slender.

*Tepefactus*, warmed, made warm.

*Ter*, three times, thrice. *Ter quaterve*, three or four times.

*Teres*, *teretis*, round, taper; also, *teres* is a name for the long and round worm infesting the human body, *qu. d. vermis teres*.

*Tergum*, the back. *A tergo*, behind.

*Tero*, to rub. *Tere* (imperative), rub. *Terendus*, to be rubbed. *Terantur*, let them be rubbed.

*Tertius*, *tertia*, *tertium*, the third.

*Testacea*, the prepared powders made of oyster-shells, egg-shells, crabs' claws, &c.

*Thorax*, the chest. *Thoracis*, of the chest.

*Thus*, frankincense.

*Tinea capitis*, scald head.

*Torrefactus*, toasted.

*Tres*, *tria*, three; *tribus*, in three, to three.

*Triduum*, three days.

*Trituratio*, a grinding. *Trituratus*, triturated, ground. *Tritus*, ground.

*T.O.*, *Tinctura Opii*, what is commonly called *Laudanum*.

*T.O.C.*, *Tinctura Opii Camphorata*, Camphorated Tincture of Opium, called, formerly, *Paregoric Elixir*. This tincture is now called by the London College, in the late reform of the *Pharmacopœia*, edit. 1809, *Tinctura Camphoræ Composita*.

*Trans*, through. *Cola trans chartam*, filter through filtering-paper.

*Tussis*, a cough. *Tussi molestante*, when the cough is troublesome.

Ultimus, ultima, um, the last. Ultimó præscript, which was last prescribed.  
 Umbilicus, the navel.  
 Unà (an adverb), together.  
 Uncia, an ounce. Unciam cum semisse, an ounce and a half.  
 Undecim, eleven.  
 Unus, una, unum, one. Unius, of one. Uni, to one.  
 Urgente tussi, when the cough is troublesome.  
 Urgeo, to urge, to oppress, to be troublesome or painful.  
 Usus, use. Pergat in usu remediorum, continue the use of the medicine as before  
 Usque ad, up to, as far as.  
 Ut, as, that, so that; in the same manner as.  
 Utendus, to be used.  
 Utatur, let him make use of.  
 Uterque, utraque, utrumque, both. Utriusque, of both. Utrique, to both, to either.  
 Admoveantur hirundines ij tempori utrique, apply two leeches to each temple.  
 Utriuslibet, of whichever of the two, or more, the patient likes best.

## V.

Vaccinatio, the act of inoculating for the cowpock.  
 Variolæ vaccinæ, the cowpock.  
 Vaccinum lac, cow's milk.  
 Valde, very, very much.  
 Valeo, to avail; si non valeat, if it does not answer.  
 Variolæ, the smallpox.  
 Varicella, the chickenpox.  
 Vas, a vessel. Vasis, of a vessel. Vase clauso, in a covered vessel. Agitato vase, shaking the vessel.  
 Ve, vel, or; either: -ve is never at the beginning, but the end, of a word.  
 Vertebrae, the joints of the neck, back, or loins; the vertebrae, altogether, form that column of bones which is called the spine.  
 Verus, true, real, genuine.  
 Vena, vein. Vena saphena, the ankle vein.  
 Venæsectio, bleeding. Fiat venæsectio, bleed him.  
 V. S. B., Venæsectio brachii, bleeding in the arm. Fiat venæsectio in venâ saphena, bleed the patient in the ankle vein—or, it may be understood, to bleed wherever you can find the best vein at the top of the foot to get blood from.  
 Vespere, in the evening.  
 Vespertinus, in the evening, as horâ vi<sup>a</sup>, vespertina, at six o'clock in the evening.  
 Vehiculum, a vehicle; that is, whatever liquid or any other eatable or drinkable we take a medicine in, as barley-water, whey, jelly, or panada, &c.  
 Viginti, twenty. Vicesimus, vigesimus, the twentieth.  
 Vinosus, vinarius, of wine. Cyathus vinarius, a wine-glass.  
 Vices, turns; ad duas vices sumendus, to be taken at twice; that is, half to be taken at first, and the other half in some time after.  
 Vicibus partitis. See Partitis in P.  
 Vice, in the room of. Vix, scarcely, hardly. Ut vix sentiatur, so that it can scarcely be perceivable.  
 Vitellus, the yolk of an egg.  
 V. O. S., Vitello ovi Solut<sup>m</sup>; dissolved in the yolk of an egg.  
 Vitrum, a glass. Vitreus, made of glass.  
 Vires, strength; si vires permittant, if the strength will bear it.  
 Vomitio, a vomiting. Vomitione urgente, when the vomiting is troublesome.  
 Vultus, the countenance.

## OBSERVATIONS ON THE MANAGEMENT OF THE SICK ROOM.

In the treatment of disease, as much depends on the proper management of the patient, or as it is usually called *nursing*, as on the remedial powers of medicines appropriate to the exigencies of the case. How many, in fact, have owed their lives to the sedulous and skillful attention of their nurse or friends, wholly independent of professional assistance! and, on the other hand, what numbers have been sacrificed to a want of knowledge of the proper government of a sick room, in spite of the most judicious treatment on the part of the physician! This most important subject has been strangely overlooked by both lecturers and writers on the practice of medicine. We are acquainted with but two treatises on the subject, in our language, that can be referred to with confidence—the general observations prefixed to “A Practice of Physic,” by the late Dr. Dewees, and “The Domestic Management of the Sick Room,” by Dr. A. T. Thomson, of both of which we shall freely avail ourself in the following pages.

## VENTILATION IN THE SICK ROOM.

Where it is possible, the room in which the patient is confined should be large and lofty, and in all cases provided with a chimney; the upper sashes of the windows should be capable of being let down, which is not always the case; in a word, the room should be of such a construction, as to permit the freest ventilation and renewal of the air without injury to the patient. Fortunately, for the comfort as well as for the benefit of the sick, a great change has taken place as regards their treatment in this respect; at one time, and that not many years since, it was considered essential to their recovery that air should be carefully excluded from their apartments, and every means was taken to accomplish this result; but a more rational mode of treatment is now generally adopted, though physicians occasionally meet with individuals who obstinately adhere to the idea that all access of the outer air is injurious to the sick.

The air of a sick chamber soon becomes impure, and must be changed by the admission of fresh air from without, and not, as is too frequently attempted, by the use of disinfecting agents in the chamber itself; which, although they may mask or destroy offensive odors, only tend to vitiate the air still more. It may be confidently asserted, that no disinfecting or fumigating agent is capable of rendering the air of a sick chamber so pure and salutary as it can be made by proper attention to cleanliness and free ventilation.

This latter can in most cases be accomplished without risk to the patient, by proper management, and should never be neglected. It should be regulated by the season of the year, the state of the atmosphere, and the character of the disease. In winter, in consequence of the draught occasioned by the fire, a renewal of the air of the room takes place to a greater or less degree; but a sick chamber should, if possible, be heated by an open fire, and not by a stove, as the air is thus more rapidly changed, and the unpleasant emanations caused by a large surface of heated iron is obviated. The state of the weather should also influence the mode of ventilation, for it must be obvious that, if it is damp, it would be injurious, if admitted into a sick room directly or in large quantities. The character of the disease should always be considered; as a general rule, all acute affections require more ventilation than those of a chronic nature, except such as are attended with offensive discharges. No precise rules, however, can be laid down on the subject of ventilation as respects the mode in which it is to be attained; this must, in a great measure, be left to the discretion and good sense of the attendants.

Ventilation is especially required in infectious and contagious disorders, as, in close, ill-ventilated apartments, the power of infection is greatly augmented, and is, as it were, concentrated. The infectious miasm is greatly weakened or diluted by a free access of air, and its powers much augmented by a damp, close atmosphere. Next to ventilation, and of equal importance, is the

## TEMPERATURE OF THE SICK ROOM.

There is a very general, but erroneous, opinion among nurses, that a sick person should be kept very warm, to prevent his taking cold, and, consequently, the temperature of the chamber is maintained at a fever heat, to the great inconvenience and positive detriment of the patient. The best general temperature of a sick room is from 60° to 70° F., to be regulated by the thermometer rather than by the sensations of the sick person, as these are oftentimes morbid and deceptive, but at the same time are not to be wholly disregarded; thus, where the temperature is agreeable to the sensations of the attendants, and the patient, notwithstanding, complains of chilliness, it should be increased a few degrees.

In febrile complaints, nothing conduces more to the comfort, and nothing is more proper than a reduced temperature, as it materially aids the physician in relieving the morbid heat of the patient's body, and the increased action of the arterial system. Thus, in a patient in the hot stage of fever, it is surprising to see the almost immediate relief experienced by the admission of cool air into the chamber; a tranquil state ensues, replacing his former jactitation and restlessness; his skin becomes cooler; his respiration, from being hurried and laborious, becomes calm and gentle; his pulse less frequent and active; and, in many cases, a placid and refreshing sleep comes on; or he breaks out into a general perspiration.

Where, on the other hand, the temperature of the room is maintained at a temperature equal to, or nearly equal to that of his body, every morbid symptom will be much aggravated, and his condition rendered still more deplorable. But, whilst a moderately depressed temperature is beneficial in many diseases, it exercises a decidedly injurious effect in others; in affections of the lungs, even a slight change in the thermometer will often cause an attack of cough and an augmentation of the symptoms.

During convalescence, the air of a sick chamber should be frequently renewed, and the temperature kept at about 60° to 65°; but no sudden transitions permitted, as nothing is more essential than a guarded care against extremes and rapid changes of heat and cold.

It is of equal importance that a proper attention should be paid to the temperature of the patient as regards the amount of his covering, for constant errors are committed by nurses in this respect. When a sick person complains of feeling cold, it is always proper to provide him with additional covering: but, if reaction takes place, and heat of skin ensues, it is seldom thought advisable by the attendants to remove any of the now superfluous clothes, "as he might take cold;" the consequence is that a febrile condition is produced, with a dry, hot skin, without a sign of perspiration. If some of the bedclothes be removed, however, this will soon make its appearance to the great relief of the patient. Every nurse should be aware that there is a sweating temperature, and that, when this is transcended, perspiration will not take place, and will cease if it be present. Attention to a simple rule on this point will obviate any difficulty,—to add covering when the patient complains of chilliness, and to remove it when he experiences too much heat.

## CLEANLINESS IN THE SICK ROOM.

Nor is attention to cleanliness of less importance, for, although much is accomplished, in preventing a foul and offensive atmosphere, by proper ventilation, this is not sufficient, and is not always practicable. The observance of this is one of a nurse's most important duties; and she should be careful to remove anything that is capable of emitting an unpleasant smell, or of giving out an injurious gas, as speedily as possible. All evacuations are to be taken from the room at once, and never suffered to taint the air, under any pretence whatever. The bedclothes, as well as the personal clothing of the patient, should be changed as frequently as circumstances will allow, and no dirt suffered to accumulate in any part of the room. All articles used by the patient in taking his food, medicine, &c., should be cleaned as soon after they have been employed as possible. No slop-basin or slop-pail should ever be allowed to remain in a sick chamber.



A patient's face and hands should be frequently wiped with a towel moistened with cold water, or vinegar and water, in all cases in which there is no danger of causing chilliness, and he should be allowed to rinse his mouth and clean his teeth, several times a-day; when he is unable to perform the latter office for himself, it should be done by the nurse. This is very grateful to patients in fever, when the tongue is dry or coated with fur or tenacious mucus.

Whilst every means of ensuring cleanliness in the sick room should be practiced, it is to be accomplished with as little noise and bustle as possible; otherwise it becomes annoying and injurious to the patient. It is not requisite that the room should be swept, nor that the furniture should be dusted, every day. What is done should always be performed in the morning, as the patient is usually better able to bear the little noise and bustle necessarily attendant on these operations, after a night's rest and quiet. When the carpet is swept, it should be sprinkled with moist tea leaves a short time previous, to prevent dust from rising.

### QUIET IN THE SICK ROOM.

In most diseases, and especially in those attended with fever, nothing is more annoying and distressing to the patient than noise; hence, the utmost quiet should be strictly maintained. All unnecessary conversation should be avoided, as a sick room is an unfit place for gossiping. If conversation be carried on, however, it should be in such a tone of voice that the patient may comprehend it, for nothing is more injudicious or hurtful to a sick person, especially if of a nervous temperament, than the mode usually adopted by the attendants of conversing in whispers, as it leads him to imagine that it refers to something they are afraid or unwilling to communicate to him, and hence, he fatigues himself by endeavoring to ascertain the purport of conversation, or gives way to despondency; on this account, it is better that all talking that is required should be carried on in a moderate tone of voice, and not in whispers, as much less likely to disturb the patient or to excite his attention.

In some cases, especially in those of a nervous character, on the contrary, cheerful conversation is of much benefit to the patient, provided it is not continued so long as to fatigue him.

A great fault in many nurses is being always in a bustle, "putting things to rights," or "fixing the room," thus constantly disturbing the patient, and preventing him from sleeping; nothing is more annoying to a sick person than this bustle or this constant recurrence of noises, which, however insignificant in themselves, render him nervous and impatient, from their repetition. Most of these may be prevented by an attention to order and method on the part of the nurse.

One common source of annoyance to a sick person arises from a frequent opening and shutting of his door, more especially if the lock or hinges are not in good order. In many cases, the door may be kept permanently open, and the patient protected from the light and draught of air by means of a screen. Where this cannot be done, the door should never be opened, except where it is absolutely required, and it is by all means to be avoided whilst the patient is asleep. One means of avoiding a too frequent opening and shutting of the door is to permit no person to enter the room except such as are required to assist in attendance on the patient.

### EXAMINATION AND PRESERVATION OF THE EXCRETIONS.

This is of much importance in many cases, as it enables the physician to judge with some degree of certainty of the condition of the patient and of the progress of the disease. It should never be trusted to a nurse, as it is very rarely that their account can be depended upon. In all cases where the physician deems it necessary, the nurse should be directed to preserve the excretions for his inspection; but they should never be retained in the sick room.

### ADMINISTRATION OF MEDICINE, &c.

However skillful the physician may be, and however judicious his treatment, they are rendered perfectly nugatory, if the remedies he orders are not administered accord-

ing to his directions, as the cure of the patient depends in many cases on the regular application of the prescribed remedies. It is, therefore, the duty of the attendant on the sick to follow implicitly the directions of the physician, as well in exactly complying with his orders, as in doing nothing that she has not been ordered to do. At the same time, there are exceptions to this rule, in which a suspension of the remedy, or a deviation from the order of the physician, is not only allowable, but is absolutely required. Thus, from idiosyncrasy or some other cause, the remedy in the doses ordered may have no effect, or may produce one widely different from that intended or expected. In such cases, it is evident that a strict adherence to the directions of the physician would be productive of evil; but he should be immediately apprised of the circumstance.

Nurses, however, more frequently commit errors in the administration of drinks and nourishment than in that of the prescribed medicines. In the former, they are apt to imagine that they are as good, if not better judges than the physician, and, in consequence, thwart the best directed treatment. The nurse should as scrupulously adhere to the directions of the physician as regards drink and nourishment, as with the doses and times of administration of medicines; nor should the exhibition of food or drink be left to her discretion more than that of remedies.

One error is very common, that of giving them too largely or too frequently; this should be guarded against, as far as possible, by the physician prescribing the quantity and quality of food or drink, as well as the times of giving it, with as much precision as he prescribes doses of medicine and the periods of their exhibition. In fact, in the treatment of the sick, as little as possible should be left to the discretion and judgment of the nurse or attendant of the patient.

#### FURNITURE OF A SICK ROOM.

Where a disease is of a serious character, or appears likely to be protracted, it becomes of importance that the chamber he is to occupy, if circumstances will admit of it, should be selected and arranged in such a manner as will most minister to his comfort, and aid his recovery. It should, if possible, be large and airy, with a northern aspect, so as to avoid the glare of the sun; but, in towns, a room exposed to the sun is preferable to one on the street, in which the patient is constantly disturbed by the noise of passing vehicles, &c. As mentioned under the head of ventilation, it should always be provided with an open chimney, that a due circulation of air may take place.

No article of furniture that is not required should be suffered to remain in the room, as the dusting and arranging it will cause unnecessary noise and bustle, annoying to the patient. Two tables are wanted in most cases: one of a small size, to stand by the side of the bed, to hold such articles as are in immediate use, as the medicines he is taking, the spoon or glass in which they are administered, &c.; but nothing should be permitted to remain upon it, except articles frequently wanted. The other table, which should be large, and adapted for the reception of medicines not in immediate use, such as spare spoons and glasses, should contain a drawer, supplied with a roll of old and soft linen, a sponge, scissors, a spatula, a roll of muslin and one of flannel bandage, some lint, some adhesive plaster, a pincushion well supplied with pins; in fact, all such articles as may be needed. It may appear unnecessary to allude to these things; but it has happened to every medical man, to observe that, without such previous preparation, much of his time is wasted in the search for what is wanted.

Where a second table is inconvenient, the top of a chest of drawers can be employed instead, for bottles, glasses, &c.; and one drawer should be appropriated to the reception of the various articles above enumerated; another should contain towels, a free supply of which should always be at hand; but none are ever to be used for the reception of dirtied articles of clothing, which should always be at once removed from the room. The washstand should be provided with additional basins, one of which should be of small size; and a large pitcher of water should be always kept in the room.

If there is a looking-glass in the room, it should be placed in such a position as not to be in view of the patient. A large sofa, or a small additional bed, is constantly required, as in certain cases where the patient is unable to sit up, he finds much comfort

in being removed to it; it is also required when his bed is to be made. An invalid, or easy chair is also productive of much benefit in certain cases; and where it can be commanded, it should be of such a construction as will admit of changes, so as to vary the position of the patient at pleasure.

What is called a French bedstead, without curtains, is the best adapted to the sick room. The four post bedstead, when used, should not be furnished with curtains, as these tend to exclude the air, and to retain smells and a vitiated atmosphere. In all cases, a mattress is preferable to a feather-bed; it may be placed over the latter, when greater softness is required. The pillows should be elastic, but so firm as not to permit the head of the patient to sink in them, as this prevents coolness and a due circulation of air. The bed-coverings should be as light as is consistent with warmth and comfort; hence, Marseilles quilts should not be used, as from their weight they oppress the patient, without affording as much warmth as a light blanket.

The change of bedclothes, and shaking up the bed or mattress, must be regulated by the character of the disease and the condition of the patient. In febrile complaints, it should be done, if the strength of the patient will admit, twice in the twenty-four hours. When there is much restlessness, it will be found advantageous to move him night and morning to a large sofa, or to another bed; this tends to promote sleep, and to insure a proper airing of the beds. When he is thus moved, the clothes of the bed he has left are to be turned down, and fully exposed to the air, which will render so frequent a change of the sheets less necessary than would otherwise be required. When there is only one bed, and in febrile diseases, the sheets which have been used at night are to be replaced by others in the morning, and freely exposed to the air during the day, and again used at night. When the patient is too much debilitated to be moved from bed to bed, he should be merely removed to the other side of his bed, and the one he has left properly arranged by changing the linen, beating up the bed, &c.; but these changes are never to be made whilst he is in a perspiration.

If a fire in the room is required, it should not be made use of to prepare the food or drinks of the patient; this should be done elsewhere, as well to avoid the smell emitted by the heated articles, as the noise and bustle caused in their preparation.

#### PROPER USE OF UTENSILS FOR EVACUATIONS, &c.

As it is of the utmost importance to the patient that he should be spared all unnecessary fatigue, some precautions are to be used to prevent this during his evacuations; and one of the duties of a nurse is to enable him to perform those offices with the least expenditure of strength. When the patient is feeble, he should never be allowed to rise to fulfil the calls of nature, and therefore a bed pan and urinal should always be provided; by means of these, the evacuations can be performed with ease, and without exertion. Many persons, it is true, have an aversion to using them; but this difficulty can generally be overcome by a proper representation of their advantages. One of the objections commonly made is that the use of a bed-pan gives them pain in the back; and this is often the case, where the patient is not properly supported; but can always be prevented by placing a pillow in the hollow of the back, before the pan is used.

In the case of giving drinks or nourishment, much unnecessary fatigue may be spared to the patient. Owing to the form of the vessels usually employed to administer drinks, without the sick person is raised in bed to receive them, much of the fluid is apt to be spilt on the bedclothes, to his great discomfort. Hence, a tumbler, tea-cup, or bowl should never be employed for this purpose, where the patient is too feeble to raise himself without inconvenience. The sick cup, as it is called, should therefore be employed for this purpose, as it spares all fatigue, and prevents any spilling of fluid on the patient or on the clothes.

When the medicine or food is taken in spoonful quantities, and in cases of nauseous medicines to be administered to children, the medicinal spoon will be found very useful. This is a spoon with a hollow handle, with an opening at its extremity; the bowl is provided with a hinged lid, but is open at the apex. When a fluid is poured into it, and the lid closed, the pressure of the air at the opening at the end of the bowl will prevent any of the fluid escaping, as long as the orifice at the end of the



handle is closed, but is projected with some force when this opening is free. By means of this contrivance, medicine or food may be conveniently administered without the patient being obliged to be raised in bed, or in spite of resistance on the part of a child.

### DOSE OF MEDICINES.

The doses of medicinal substances, being specific as regards each other, can only be learnt by experience; but their remedial or active powers do not always increase with an increase of the dose: thus, if a purgative dose of calomel be ten grains, an increased quantity of the medicine will not induce an equivalent increase in the purgation, though it may cause other consequences. The dose in which a medicine is given often determines its specific action; two grains of ipecacuanha will usually quiet the stomach, or act as a diaphoretic, whilst thirty will produce active emesis, and, in like manner, almost every medicine displays different powers, according to the dose in which it is administered.

Dr. Paris states "that powerful doses are disposed to produce local rather than general effects." This is proved by experience, in many cases, but does not hold good in all; thus, many of the active poisons cause general effects in both large and small doses, and their virulent action is in general proportionate to the quantity taken. In most of what are termed the alterative medicines, however, the alterative action is only displayed when they are administered in small, but long-continued doses, and does not take place when they are taken in such quantities as to excite much local action. It is erroneous to suppose that a medicine is devoid of power, or does not exert an influence on the system, because no marked effect immediately follows its exhibition; for, as is observed by Dr. Barlow, "it is very possible that practitioners often err, especially in the treatment of chronic maladies, from requiring an obvious effect from each dose administered; where it is ascertained that a medicine actually possesses inherent powers, the slow and almost imperceptible exercise of these powers should not be despised. There is often more wisdom in seconding the efforts of nature than in superseding them." In fully admitting the truth of this remark, we are far from advocating the doctrine of Hahnemann, or his invisible doses; nor does it, in fact, accord with his views, for he gives a long catalogue of symptoms, caused by the administration of the minutest quantity of the articles of his materia medica.

So many circumstances influence the effects of medicines, that it is almost impossible to say what dose will produce identical effects in different individuals; but it has been sufficiently ascertained that, in the generality of patients, we may reasonably expect certain results from certain doses. The circumstances that influence the action of medicines, and the doses in which they are to be given, are

AGE.—This exercises much influence; the young require smaller doses of a medicine to produce the desired effect than an adult; and the aged, although less susceptible to impressions than formerly, are unable to bear any forcible shock on their system. Various formulas or tables have been published for the graduation of doses to the respective ages; but none of them are as generally adopted as that attributed to Gaubius, which is as follows:—

Dose for a person in adult age being	1 drachm or 1,
That for a person from 14 to 21 years would be	2 scruples or $\frac{2}{3}$ .
“ 7 to 14 “	$\frac{1}{2}$ drachm or $\frac{1}{2}$ .
“ 4 to 7 “	1 scruple or $\frac{1}{3}$ .
“ 4 “	15 grains or $\frac{1}{4}$ .
“ 3 “	10 grains or $\frac{1}{6}$ .
“ 2 “	8 grains or $\frac{1}{8}$ .
“ 1 “	5 grains or $\frac{1}{12}$ .

This table, although mainly correct, is often found to be erroneous, when applied to particular cases. Dr. Paris, in his *Pharmacologia*, gives a formula devised by Dr. Young, which is simple, and has been found to be generally correct; this is:—

For children under twelve years, the doses of most medicines must be diminished in the proportion of the age to the age increased by twelve; thus:

At two years to  $\frac{1}{7}$ , viz :

$$\frac{2}{2+12} = \frac{1}{7};$$

At 21 the full dose to be given.

But no scheme can be devised, founded on age alone, to which there are not many exceptions. Thus, children require proportionably larger doses of castor oil or calomel to affect them than adults, whilst, and especially when very young, they are exceedingly susceptible to the action of opium and its preparations.

SEX.—It is generally admitted that females require smaller doses of medicines than males, and, as a general rule, this may be correct; but so much depends upon habits of life, temperament, &c., that the exceptions are almost as numerous as the examples.

TEMPERAMENT also exercises much influence on the doses of certain articles of the materia medica; an individual of a nervous temperament is unable to bear with impunity doses of opium that scarcely act on the phlegmatic; the sanguineous are readily affected by the action of stimuli, &c.

IDIOSYNCRASY, or constitutional peculiarity, has more influence than either sex or temperament on the action of medicines. Some of these anomalies are very striking, and almost incredible, and evidence the necessity of particular inquiries being made by the physician of every patient with whose constitution he is unacquainted. In some cases, opium, or any of its preparations, cannot be administered without producing the most distressing symptoms; in others, the smallest doses of calomel will cause salivation; whilst in others again it may be profusely given without inducing any effect on the salivary glands. In some persons, the mere vicinity to the poison oak (*Rhus radicans*) will bring on an unpleasant inflammation of the skin; whilst on other individuals this plant has no action whatever. It is often found that copaiba will cause a peculiar eruption, and the smell of ipecacuanha induce a distressing dyspnoea. So tartar emetic will be productive of ptyalism in some individuals even when applied to the surface of the body; blisters of cantharides will cause strangury in some patients, &c. In fact, these idiosyncrasies are so numerous that it would require a volume to notice in detail those already recorded.

HABIT exercises an equal influence with idiosyncrasy in modifying the action of medicines. The usual consequence of a long-continued use of any remedial or stimulating substance is to diminish the susceptibility of the organs on which it acts to its impression. Hence, to obtain its effects, it must be given in gradually increased quantities. In many cases, however, instead of a diminished, an increased action is caused by repetition of certain substances.

The influence of habit, in diminishing the susceptibility of the system to stimuli, is liable to fewer exceptions as regards vegetable than mineral substances, as may be daily remarked in the use of opium and tobacco. Dr. Christison accounts for this effect of habit in diminishing the influence of vegetable substances, by an increased power of the stomach in decomposing them; but it must also be attributed to a diminished susceptibility in the nervous system to their influence. But mineral medicines appear, in almost every case, to act with increased power by repetition, though the converse has been observed in some cases.

STATE OF THE SYSTEM.—It is well known that, in certain deviations from a healthy or normal condition, a remarkable change is often observed in the action of remedies on the system. Thus, in severe pain, opium can be administered in doses that cannot be borne with impunity in a state of health; but this is still more the case in tetanus, in which scruple doses, frequently repeated, have been administered without producing any marked effects. This modifying influence of disease has been noticed with regard to many other remedies, as in mercury, which can be given in large and repeated doses, in a febrile condition, without causing salivation. Where there is a diminished sensibility of a part, or a comatose condition, the pain, or irritation caused by the application of stimulating or vesicating applications, not being felt by the patient, there is a risk of inducing a sloughing and destruction of the part to which they are applied, if care be not taken to remove them in time; so, also, the application of ammonia to the nostrils, to relieve fainting, has caused violent irritation, and even

inflammation of the trachea, the patient being unable, from his condition, of appreciating or expressing his sensations. Dr. Christison notices several fatal cases of bronchitis from this cause.

TIME OF DAY at which medicines are administered also influences their action on the system. As a general rule, no medicine should be given soon after a meal, though, in the case of some of the irritants, as arsenic, corrosive sublimate, iodine, &c., it is often found most expedient to administer them whilst the stomach is filled with food, to avoid their local action on that organ. Dr. Paris observes, under this head: "Evacuating medicines ought to be exhibited late at night, or early in the morning; thus, substances of tardy operation, as calomel, and the resinous purgatives, should be given at night, while saline purgatives, senna, &c. may be given in the morning. It would seem that during sleep the bowels are not so irritable, and, consequently, not so easily acted upon, which allows time for the full solution of the substance." In all cases, the exhibition of purgatives should be so timed that their operation may take place during the day, so as to avoid an undue disturbance of the patient at night. Other directions will be found in a subsequent part of the work.

Numerous other causes exercise much influence on the action of medicines, as climate, the imagination of the patient, the tissue or organ to which they are applied, &c.

Nor should the *variable activity* of a medicine be overlooked; this has occasioned more accidents than is generally supposed. Some remedies, and generally those of a vegetable nature, lose much of their activity by age, and, therefore, require to be given in large doses to produce the desired effect; hence, where a physician has been induced to increase the usual dose of some article, which in a recent or unaltered state is active, and even poisonous, but, from age or other deteriorating cause, has become weakened, serious accidents may occur, if he persist in administering the same doses of a parcel which is fresh, or which is obtained from another apothecary. In such cases, the safest plan is always to commence with the usual dose of the medicine, and to gradually increase it, if this be found necessary.

It should also be borne in mind that certain medicines have the power of accumulating in the system, or, in other words, of not displaying their usual effects when given in small and repeated doses, until a certain quantity has been taken, when, on a sudden, symptoms resembling those caused by an overdose of the article, make their appearance. This has been remarked in relation to mercury, arsenic, and several other of the metallic medicines, as well as iodine, digitalis, &c. In giving remedies of this character, the physician should always be cautious, and not repeat the dose of them too frequently, because no sensible effect is produced at the expected time.

INTERVALS BETWEEN DOSES.—As every medicine produces a specific and definite action on the system, which, in most cases, continues for a certain time, and then ceases, it becomes necessary to renew or maintain the medicinal impression as long as is required to counteract the morbid condition of the system. In some cases, however, as in the case of an emetic or purgative given for the purpose of merely evacuating the stomach and bowels, the single effect produced may be sufficient, and no repetition of the dose is required. In most attacks of disease, on the other hand, the physician is obliged to prescribe medicines in such quantities as to produce a certain impression, and to repeat the doses at such intervals as will keep up the influence of this impression. Where, from a want of knowledge of the time during which the remedy he has administered will continue to exercise its full action on the system, he postpones a repetition of it for too long a period, although a fresh impression is made by each dose, but little real good is the result, and, from a want of continuity in the remedial impression, no progress is made towards a cure. Hence, a physician should be acquainted with the usual duration of the action of the medicine he is administering, and order a repetition of the doses so as to keep the system under its influence. A nurse should, therefore, in all cases, follow his directions implicitly, as regards the periods at which medicines are to be given, for, by inattention to this rule, injustice is done to the physician, and, what is of more importance, the life of the patient is endangered. Where the diffusible stimulants are administered, especially those of an evanescent character, it is of much consequence that their influence should be kept up; and hence a neglect on the part of a nurse in giving



them at the prescribed periods might cause a fatal collapse of the patient. It should be observed, however, that, except in cases where it is necessary thus to maintain the vital powers of a patient, this strict observance of the prescribed intervals between the doses of medicines is not intended to extend to the night, so as to disturb the invalid, as, in most diseases, sleep is one of the best restoratives; but advantage is to be taken of those moments when he is awake, timing the doses as nearly as possible to the designated periods.

**RULES FOR THE ADMINISTRATION OF MEDICINES.**—As has been stated, fluid medicines are usually administered in drops, teaspoonfuls, tablespoonfuls, &c.—an approximative measurement, which, although not precise or accurate, is sufficiently so in most cases, though not suited to medicines of a very active nature. As the generality of medicines are nauseous, it is necessary to modify, as far as possible, their disagreeable taste, which renders them so repugnant to patients, and often causes much difficulty in their administration, especially to children; but this modification must not be of such a character as to alter their properties. As regards young children, much difficulty will be obviated by the use of the medicine-spoon already described; this will also be found useful in cases of insanity, where patients refuse to take medicine or nourishment.

It is often found that patients experience much difficulty in swallowing pills, especially when these are of small size. The usual mode is to place the pill on the tongue, and to take a mouthful of water, when, on making an effort to swallow, both pass down the throat together; this plan is generally successful; but some persons appear to be unable to take a pill in this manner, and gorge themselves with fluid without effecting the deglutition of the pilular body; in such cases, by enveloping the pill in some bread, or some conserve or sweetmeat, so as to form a bolus, the difficulty is obviated.

Mixtures containing insoluble ingredients should always be shaken up before they are administered; otherwise, the first doses will contain but little of the active ingredients, whilst the last portions will, on the other hand, be more powerful than was intended. Where the article administered is of a volatile nature, it should be given the moment it is poured out, and the bottle containing the remainder immediately closed.

As each of the classes of medicinal articles requires the observance of certain rules to insure its full benefit, these will be briefly noticed in an alphabetical order.

**ACIDS.**—These are given to fulfil various indications; some acting as tonics, some as refrigerants, &c. As those most generally used are corrosive, they require to be diluted with some bland fluid, so as not to exercise too powerful a local action on the tissues with which they come in contact; nor should they be kept in a metallic vessel, nor given by means of a metal spoon. As most of them act on the enamel of the teeth in a very rapid and energetic manner, the mouth should be well rinsed with water after the administration of each dose; or they may be taken by being sucked up by means of a small glass tube, thus avoiding any contact with the teeth: this observation applies to many of the acid or super-salts; the usual solution of the sulphate of quinine, which contains free sulphuric acid, is known to act on the teeth very rapidly, and, from a constant repetition of the doses, to injure them in a serious manner; and hence requires to be given with precaution.

**ANTACIDS** are medicines intended to neutralize an undue or morbid acidity of the stomach or intestines. Their action is chemical, and they produce an innoxious compound which takes the place of the morbid fluid that causes the uneasiness or pain. In many cases, they act most efficaciously, when an emetic or cathartic has been previously administered. To obtain a permanent benefit from them, they should be combined with tonics, aromatics, &c.; as, when given alone, the relief afforded by them is but transient.

They are most advantageously administered early in the morning, or some time previous to a meal during the day. When the salt resulting from the union of the antacid and the morbid acid is purgative, the former is better given at bed-time; thus, the combination of the solution of potassa, of the carbonates of potassa and soda, or

of magnesia, forms salts with the gastric acid that act with some energy on the bowels; but this is not the case with chalk mixture or lime water.

The patient should be restricted to light animal food and well boiled vegetables, avoiding sweets, acids, pastry, and, in fact, everything liable to increase the accecent condition of the stomach.

ANTILITHICS and LITHONTRIPTICS are medicines supposed to possess the power of obviating or dissolving urinary calculi. That there are remedial agents capable of removing or relieving that morbid condition of the system on which a lithic diathesis depends, there can be no doubt; but it is very questionable if we possess remedies capable of dissolving calculi existing in the urinary organs. Among the antilithic remedies, those most generally employed are magnesia and its salts, the alkalies, soap, several of the acids, some astringent diuretics, many bitter tonics, &c. In cases of a lithic diathesis, however, much depends on the regulation of the diet of the patient; thus, when there is a superabundant secretion of uric acid, the food should contain as little azote as possible, and, therefore, be mainly of a vegetable nature; but, at the same time, care must be taken that the healthy action of the stomach is not impaired. There should be an avoidance of all indigestible substances, as fresh bread, pastry, salt meats, and even soups of all kinds; nor should malt liquors or acid wines be allowed. Where the white sand deposits or the phosphates occur, an acid system of diet is beneficial, with abstinence from all alkalies, soda water, &c.; whilst lemonade, the acid wines, and fruits in moderation can be allowed with advantage.

ANTISPASMODICS are remedies which have been considered to be endowed with the power of allaying spasm, and of calming or entirely removing irregular actions of the nervous system. As spasmodic action of the muscular apparatus and a morbid condition of the nervous centres may arise from a variety of causes, it has been found that the most opposite modes of treatment have been required; thus, in some cases, the most efficient antispasmodic is the lancet, whilst in others the morbid symptoms are best alleviated by the most active diffusible stimuli. It is not our intention to enter into the discussion of the mooted question of the *modus operandi* of antispasmodics, or whether there exists a class of remedies which are endowed with the power of exerting a direct control over spasmodic action. It is, however, shown by experience that the influence of this class of remedial agents is very limited in their operation and very various in their effects, and that to be efficient much discrimination is requisite on the part of the physician in the selection of the article best calculated to attain the desired effect. In general, what are termed antispasmodics have some of the properties of the narcotics, but differ from them in not causing stupor or insensibility. They are mostly substances possessed of a strong odor, and of a more or less volatile nature; and hence also partake of the properties of stimulants.

ANTHELMINTICS are medicines which are capable of expelling or destroying worms situated in the intestinal canal. Several kinds of worms are apt to infest the human intestines, and often give rise to distressing and even fatal symptoms. The medicines calculated to dislodge them are of various kinds: some act mechanically, as active purgatives, powder of tin, cowhage, &c.; some by being poisonous to the worms, as pink root, pomegranate bark, the vegetable bitters, &c.; and to this class belong, in all probability, the acrid, volatile, and resinous vermifuges, as turpentine, camphor, garlic, &c.; and the mineral remedies, as calomel, the preparations of iron, sulphur, &c.; some seem to act by asphyxiating the worms, as the fatty oils, the mucilages, &c.

Vermifuge medicines should be given in as simple a form as possible, and in as large doses as is compatible with their nature, and the age and condition of the patient; and hence the plan of administering them in the form of lozenges, biscuits, &c., is erroneous. One of the most certain of these remedies is the pink root (*spigelia*), either in the form of simple infusion, or united with senna or savin; in the first case, it should be followed by the administration of a brisk cathartic. In consequence of its sometimes causing temporary loss of sight, tremors, &c., which, although seldom dangerous, are apt to frighten the relations and friends of the patient, it is better, especially in cases of children, to administer the infusion in the evening, so that its effects may not be observed. The worm-seed oil is also another native anthelmintic of great power, but has the objection of having so disagreeable an odor and taste as



to prevent its general use; the least unpleasant mode of giving it is in emulsion with mint or cinnamon water.

Whatever vermifuge is employed, and whatever success attends its administration, the treatment should not be confined to the mere expulsion of the worms; but the condition of the stomach and bowels should be attended to, and their tone rendered healthy by the use of tonics, and a well-directed and generous diet.

CATHARTICS are those medicines which increase in a greater or less degree the peristaltic action of the intestines. Cathartics have been divided into *laxatives*, which are characterized by acting mildly, without stimulating in any great degree the vessels of the intestines, or exciting a general disturbance of the system; and *purgatives*, which, in addition to evacuating the contents of the bowels, also promote secretions from their mucous coat, giving rise to copious watery stools. Some purgatives have a more violent action, occasioning nausea, faintness, pain, tenesmus, &c.; and some, acting in an overdose as acrid poisons, causing great irritation, and even inflammation of the intestines. But there is another and important character in the action of purgatives, which is that different portions of the intestinal canal are most affected by different cathartic substances; thus, calomel acts, in a marked manner, on the upper portions of the tube, as is shown by the increase of the biliary matters in the evacuations; gamboge also manifests its power on the stomach by often causing vomiting, but also, like the other drastics, causes much irritation in the large intestines; aloes, again, exert very little action on the upper part of the canal, but spends its force on the lower portion; in fact, each purgative substance is characterized by a peculiarity of action as regards the part of the intestinal canal affected by it, and the nature of the evacuation it produces; and hence, it is of importance, in prescribing an article of this class, that it be suited to the impression wished to be made, and not, as is too frequently the case, selected at random. No class of remedies has been productive of more injury than the present, from their being resorted to without judgment, and from being persevered in for too long a time; for, independent of the irritation they create and keep up in the bowels, they impair digestion, and too often lay the foundation of fatal organic diseases. Purgative medicines may be exhibited at any period during the day; but in all cases the patient should not be exposed to the influence of cold air; if, however, the circumstances are not urgent, it is better to administer them late at night or early in the morning, so as to prevent the disturbance and loss of rest of the patient, and also to secure their retention by the stomach; when given on an empty stomach, they also act more speedily and effectually than when this viscus is filled with food. To promote their action, and to obviate their griping effect, warm diluents, as chicken water, gruel, &c., should be freely taken after the first discharge. Where they operate too much, this inordinate action is to be checked by laudanum given by the mouth, or in the form of injections.

Many of these medicines are very nauseous, and so repugnant to the patient as to induce nausea and vomiting, and, therefore, require the addition of correctives. The taste of rhubarb is best disguised by being given in milk, and that of castor oil by the froth of porter. The disagreeable taste of infusion of senna is much lessened if made with cold water, or, if made in the usual manner, by the addition of strong coffee, black tea, or by a few grains of cream of tartar. Aloes are rendered more palatable by the addition of extract of liquorice. Magnesia is mixed more perfectly with water or milk, if it is poured on the surface of the fluid, and permitted to sink as it becomes saturated, than by the opposite course. The neutral salts are rendered more palatable by adding a small portion of lemon juice to their solution, &c.

When a cathartic is given in the form of pill, its operation is always less speedy than when administered in powder or mixture; and it should be borne in mind that the drastic purgatives operate more mildly, and even effectually, in combination than when given alone, as is instanced in the compound cathartic pill.

*Enemata or Clysters.*—This mode of purgation is now generally employed in our large towns; but a great prejudice exists among many persons against its use, from a fastidious and mistaken delicacy. In consequence of the improved apparatus now to be procured, the administration of these remedies is attended with much less diffi-

culty and exposure than formerly, when the pipe and bag or common syringe were employed; and, therefore, much of the objection to their use is obviated.

Clysters are of almost indispensable utility when it is necessary to evacuate the bowels as speedily as possible, or when the stomach will not bear the administration of a purgative by the mouth, and also in cases where it is of importance to make a direct application to the lower bowels, as in dysentery, colic, &c. Where it is merely wished to open the bowels, an injection of tepid water will often be found sufficient; where this is not found sufficient, the addition of table salt, sweet oil, or molasses, will, in most cases, induce a full discharge. In all cases, the patient should be directed to retain the injection for as long a time as possible, and not to attempt to empty his bowels immediately after the reception of the medicine. Though clysters seldom can be forced beyond the great curve of the colon, and hence their local action confined to the lower part of the bowels, still, in many cases, their purgative influence extends to the small intestines, and their administration is followed by full and copious evacuations. They are also directed for other purposes than evacuating the bowels, for, from the intimate connection of the rectum with the other pelvic viscera, impressions made upon it are speedily transmitted to the adjoining parts, and hence, remedies can be directed by this channel with much advantage. In irritation of the bladder or uterus, an anodyne injection into the rectum will often afford much relief. In diseases of the lower bowels, also, clysters are of almost indispensable utility, as also in the dislodgement of ascarides seated in the rectum; nor are they less beneficial in those cases of sudden sinking of the powers of life where deglutition is impossible, and yet a prompt stimulating impression is requisite to save the patient; under such circumstances, clysters of some of the diffusible stimuli have proved of the greatest benefit.

*Suppositories.*—These are substances introduced into the rectum to induce a discharge of its contents. Their use is principally confined to the mere object of relieving costiveness, for which purpose a piece of soap of a conical shape, and of about an inch in length, is the most generally employed; but in some cases, articles of a more stimulating character are necessary. In cases of costiveness in children, the introduction of the end of a small roll of paper, moistened with oil, for a few moments into the rectum, will, in many cases, be found sufficient. The objection to their use is the irritation they often create in the rectum. Sometimes suppositories of opium are found useful in those cases in which anodyne clemata are usually employed, and may be used where patients have a repugnance to the use of clysters, or where the soreness of the rectum prevents the introduction of the pipe of a syringe.

In all cases where enemata or suppositories are employed, care must be taken to introduce them with care; otherwise serious injury may be done to the mucous coat of the rectum; instances have occurred where, from a careless insertion of the pipe of a syringe, the gut has been seriously affected, giving rise to fistula, &c. In most cases, the injection for a child under one year is about an ounce, which is to be gradually increased to five or six ounces, as it advances in age; to a youth, from ten to fifteen years old, a pint may be given; whilst an adult requires a pint and a-half to a quart. Where, however, the injection is of an anodyne nature, to restrain discharges or to alleviate pain, the laudanum should be mixed with not more than half an ounce to an ounce of bland mucilage, so as not to excite contraction of the bowels by the stimulus of quantity.

*DEMULCENTS OR EMOLLIENTS* are medicinal agents which diminish tone or irritation in the tissues to which they are applied, and thereby cause a relaxation of the parts, or sheathe and protect them from the action of substances capable of acting on them injuriously.

The term *Emollients* is generally employed to designate remedies which are applied externally to soften and relax external surfaces, and, by contiguous sympathy, the deeper seated parts; these effects have been referred by some to a physical, and by others to a vital, agency. They consist principally of bland watery mixtures, or of simple water, at a somewhat elevated temperature, of oleaginous substances, or those combined in various forms, as fomentations, poultices, &c., which will be more particularly noticed in a subsequent part of the work.

*Demulcents* are bland substances of various kinds, administered internally, to pre-

vent the action of irritating matters on mucous membranes, or to soothe or lubricate these parts when irritated or inflamed. They are useful in irritation and inflammation of the stomach and bowels, in like conditions of the air-passages and lungs, as well as in affections of the urinary apparatus. When prescribed in cases of catarrh, and other morbid conditions of the respiratory organs, they are usually directed to be taken *ad libitum*; but they should be swallowed slowly, for their main efficacy arises from their lubricating effect on the parts with which they come in contact; and this soothing influence is extended by sympathy to the bronchial membranes and pulmonic structure. They should be taken after a fit of coughing, for, as, by that spasmodic effort, the acrid secretion of the inflamed mucous surface is thrown off, they are enabled to come in direct contact with the irritated part, and thus exercise their soothing influence more efficiently.

DIAPHORETICS are those medicinal agents which promote and increase cutaneous transpiration. These articles are numerous, and of a very heterogeneous character. In general, warm diluents, aided by external heat, are very effectual means of promoting perspiration; whilst, in some cases, this excretion is better promoted by the use of cool liquids, or even by the sudden and temporary application of cold to the surface. They are in almost every case relative agents; and, to produce the desired effect, should be given in certain states of the system, and with certain precautions. Thus, during the exhibition of these remedies, the patient should be confined to bed, and covered with light blankets; his shirt should be of flannel or muslin, as these are good non-conductors of heat. Their action is much promoted by the free use of diluents, given either warm or cold, according to the temperature of the patient's skin. During the continuance of the perspiration, great care should be taken that it is not suddenly checked from any cause. When it is wished to moderate the sweating, the patient may be removed to another bed, covered with a warm blanket, his clothes changed, and his body dried with dry towels, care being taken that he is not exposed to cold air. During the exhibition of diaphoretics, no medicines of a purgative or diuretic character should be administered, as the action of the latter is incompatible with that of the former, besides causing a frequent exposure to cold during their operation.

DILUENTS are watery fluids which increase the fluidity of the blood, and render the secretions and excretions less acid or viscid. The best diluent is water, which is to be given either alone or variously flavored, according to the taste of the patient or the circumstances of the case. The temperature at which a diluent is given has much influence on its action. Thus, water at 60° or 70° F. merely dilutes; whilst at 45° to 60° it acts somewhat as a tonic, and at 70°, and to as high a temperature as it can be drunk, it is stimulant. Merely tepid water will often act as an emetic, whilst at 90° or 100° it will quiet the stomach and relieve nausea. In a cool or cold state, diluents diminish the temperature of the body and moderate an undue excitement of the pulse, and are hence called *refrigerants* or *temperants*, and principally consist of aqueous solutions of many of the acids, or of some of the neutral salts.

DIURETICS are medicines which increase or promote the secretion of urine: this they do by increasing the quantity of fluid taken into the stomach, or by stimulating the kidneys to increased action. They are always inconstant in their effects, and cannot be relied upon to produce the desired effect in all cases. To obtain their effect, the surface of the patient's body should be kept cool; otherwise, they are apt to operate as diaphoretics. Hence, the patient should remain out of bed, and the medicine be administered during the day-time; or, if confined to bed, the clothing should be as light as is compatible with comfort. The action of diuretics is much aided by a free use of the cooling diluents.

EMETICS are those medicines which invert the natural action of the stomach, so as to cause an ejection of its contents through the mouth, or vomiting. When the patient is plethoric, blood-letting should always precede the administration of an emetic, as it not only promotes its operation, but prevents any injurious rush of blood to the head. When it is required, a full dose of the emetic substance is to be administered; but, in the generality of cases, it is better to give it in divided doses, frequently repeated, until the desired effect is produced. It often happens, when a physician orders an emetic, that he will be asked not to give a strong one, as the patient is too weak, &c.;



but it should be known that, unless the medicine causes full vomiting, it will create more uneasiness and debility than when it acts in the desired manner. When vomiting takes place, it should be encouraged by draughts of tepid water or weak chamomile tea, to be repeated after each discharge; but the use of these fluids is not to be carried too far, because, when the stomach is gorged with liquids, the action of vomiting is often not fully performed, or is wholly checked. When the operation of an emetic is too violent, the best means of checking it is by the administration of landanum, or the application of fomentations or warm poultices to the epigastrium; if these fail, a spice plaster or a sinapism to the same part will generally be found effectual. If the stomach continues irritable, drink, food, or medicine is to be given in very small quantities. There is always much thirst, which patients are very apt to endeavor to alleviate by freely taking some fluid; but this in most cases being rejected, the evil is only increased; the best plan to relieve it is to frequently wash the mouth with some cool drink, swallowing as little as possible. When the stomach is inactive, and a full dose of an emetic substance does not cause vomiting, it is always unsafe to repeat the dose, as by such a course inflammation may be produced. When the stomach thus resists the action of one article, carried to a due extent, it is better to have recourse to another, or to endeavor to produce emesis by titillating the fauces and throat by means of a feather. Emetics should always be given at the time ordered by the physician, and, as a general rule, on an empty stomach, in the morning; but it is sometimes of benefit to administer them in the evening, as, from the exhaustion produced by their operation, a disposition to sleep is caused.

EMMENAGOGUES are medicines which excite or promote the catamenial discharge; but there are, strictly speaking, few remedies which have this specific power on the uterus, the majority of them acting by their influence on the system generally, or on parts contiguous to the uterus—ergot being almost the only article which exercises a direct power on this organ, and that rather in increasing its expulsive energy than in promoting the menstrual function, though it has been advantageously employed for the latter purpose. To insure the successful administration of this class of remedial agents, the system must be previously prepared for their use by invigorating it, if there are relaxation and debility; and by an opposite course, if there is an undue degree of arterial action. In a majority of cases, the restoration of the discharge is rather attributable to a proper regulation of the system than to any specific power in the emmenagogue administered.

EPISPASTICS are external applications which are capable of inflaming the skin, and causing an effusion of serum beneath the cuticle. These effects can be produced by a variety of means; but that most generally employed is the Spanish fly, or cantharides. The mode of applying a blister, and of dressing the sore it occasions, is very simple; but, without special directions from the physician, many nurses and attendants on the sick are strangely ignorant on the subject. The best preparation of cantharides for blistering purposes is the cerate of Spanish flies, or common blistering plaster; this will be always found effectual, if properly prepared, and of good materials. It is best spread on soft leather, though linen, muslin, or even stout paper will answer. To obtain a prompt action from a blister, it should be spread thick; powdered flies should not be sprinkled on its surface, for, if the plaster is well made, it requires no such addition; added to which, the powder is apt to adhere to the skin, and to give the patient much uneasiness. Before applying a blister, the part on which it is to be placed should be well washed with soap and water, and thoroughly dried, the hair shaved off, and the skin irritated by being rubbed with a coarse towel, or, if this is not sufficient, with warm vinegar, spirits of turpentine, &c. The plaster is to be secured to the part by means of a bandage; or, what is better, by means of strips of adhesive plaster, or by coating the margin of the leather or cloth on which the blister is spread with the adhesive plaster. Whenever either of the last modes of securing a blister is resorted to, it is necessary, to secure its adhesion, that the skin be perfectly dry. The plaster should be in perfect contact with the skin; but should not, as is too often the case, be subjected to much pressure, for this retards vesication, and is a source of uneasiness to the patient.

The period generally required for a blister to draw is twelve hours; but this is liable

to many exceptions: thus, for children, delicate females, and for persons with tender skins, a much shorter time is sufficient. The best plan, when the patient complains of pain and burning, is to lift a corner of the plaster and examine the condition of the skin beneath, and, if it be found vesicated or fully reddened, to remove the blister; or, if the skin is not sufficiently inflamed, to permit the blister to remain till this result is attained. When the skin is sufficiently reddened, but not vesicated, the application of a warm poultice, or of a dressing of basilicon ointment, will cause a copious effusion of serum. In cases of children and irritable persons, or those liable to strangury, this should always be done. To guard against this latter, it has been advised to interpose a piece of gauze, fine muslin, or tissue paper between the skin and the plaster: these should be moistened with oil. It is very doubtful, however, whether this plan is of any real advantage.

In many persons, the action of a blister disposes to sleep; but in very sensitive individuals it causes much irritation; this may be often obviated by the addition of a few grains of extract of hyoseyamus, or of belladonna, to the plaster. When it is requisite to cause a blister as rapidly as possible, the plaster of Spanish flies must be replaced by other means. In such cases, paper, moistened with oil of cantharides, or with the ethereal extract, will be found useful. The application of a pledget, wet with water of ammonia, will also act very rapidly. When a still more rapid effect is desired, the direct application of heat to the part may be resorted to, by means of a disk of polished metal, heated in boiling water, or by applying a piece of wet blotting paper to the skin, and passing a hot flatiron over it.

Some persons have a great dread of blisters, and object to the application of a large one; but, when the full effect of blistering is required, a large one should always be applied, for the pain and irritation caused by a large blister are very little greater than a small one occasions, whilst the benefit is more decided. Still, as the quantity of the discharge is in a great measure equivalent to the size of the vesication, large blisters depress more than small ones; therefore, when they are intended merely as counter-irritants, small blisters are to be preferred. The size and shape of blisters vary greatly, according to the part to which they are to be applied, and the age of the patient. Dr. Dewees gives the following as the general size of blisters:—

For the legs or thighs, from 7 to 8 inches long by 3 to 3½ broad.

For the back, from 7 to 8 inches long by 4 to 4½ broad.

For the thorax, from 8 to 9 inches long by 7 to 8 broad.

For the stomach, from 8 to 9 inches long by 6 to 7 broad.

For the abdomen, from 10 to 11 inches long by 8 to 10 broad, if designed to cover the whole surface.

For the ears, from the peculiarity of the shape, the size cannot well be defined.

For the temples, from an inch to an inch and a half in diameter; they are usually circular.

These are the sizes for adults; for younger persons they must, of course, be proportionably smaller.

The dressing of a blister requires some skill on the part of a nurse; and much pain and inconvenience will be saved to the patient by the exercise of a little dexterity in the operation. Some trouble will be avoided by having everything necessary for the operation in readiness, as the plasters spread, bandages ready, &c. Each of the vesicles is to be carefully snipped, with the points of a pair of sharp seissors, at their most depending part, and the serum evacuated; but when the vesications are very small and numerous, this should not be attempted, as it would occasion unnecessary fatigue to the patient. In such case, the larger vesicles only are to be opened, and the smaller left till a subsequent dressing, when it is probable they will be found much increased in size. The cuticle should not be removed from the surface of the blistered part, except when it is wished to keep up a continued discharge, in which case the cuticle is best removed by the application of a hot poultice. When it is wished to heal the blistered surface, the dressing should be of simple cerate, thinly spread on a linen rag, and renewed twice a-day. When the object is to maintain the discharge for a short time, the dressing should consist of basilicon ointment. When a more permanent impression is desired, some more stimulating application, as savin ointment, must be



used. A blistered surface should seldom be washed, as this often causes chilliness and fatigue, and is generally useless. Some persons become faint when a blister is dressed for the first time: this should not excite alarm, as it is a mere sympathetic effect. The plaster for the dressings should not be larger than the blistered surface, as it causes irritation of the sound skin without aiding the discharge. Blisters sometimes, instead of healing properly, become painful and inflamed, and assume the appearance of an eroding or a phagedenic sore; this is best remedied by the application of a soft bread and milk poultice, having its surface anointed with fresh lard or cold cream. If this does not succeed, a lotion of lime-water and linseed will often be found effectual; oxide of zinc ointment will likewise prove useful in some cases. When a blistered surface causes much itching, and renders the patient restless, washing the irritated surface with an infusion of flaxseed or slippery elm will, in most cases, relieve the uneasiness. One of the most distressing consequences, arising from the application of a blister, is the production of strangury, which invariably takes place in some persons whenever a blister is used; this is remedied by a free exhibition of emollient and mucilaginous diluents, opiates by the mouth and as an enema, external fomentations to the pubic region, &c.; in some cases, a clyster of solution of sulphate of soda will act very efficaciously. To prevent its occurrence, it has been found of benefit to incorporate camphor and opium with the epispastic ointment, say twelve grains of the former and four of the latter, for a blister six inches square. It is said that boiling the flies in water, previous to their formation into an ointment, will deprive them of the property of causing strangury.

**ERRHINES** are medicines which, snuffed up the nostrils, cause an increased discharge of the nasal mucus, and generally the convulsive action of sneezing. They are now seldom prescribed, though undoubtedly useful in some cases; but they should never be employed in persons disposed to apoplexy, or in those affected with hernia, prolapsus uteri, &c.

**ESCHAROTICS** are topical agents, which, by a chemical or mechanical action, are capable of eroding or disorganizing the solid tissues of the part to which they are applied: those which act mechanically are actual cauteries, as a heated iron, moxa, &c.; those which act chemically are caustics, as fused potassa, nitrate of silver, and chloride of zinc. In cauterizing with a heated iron, this should be at a white heat, as, at this temperature, it occasions less pain to the patient, from its causing an immediate death of the part to which it is applied. In applying it to any part, the surrounding surface should be protected by some non-conductor of heat, but not by wet paper or cloth, as the sudden extrication of steam will produce a blistered surface around the burn, and will much increase the pain. The hot iron is rarely employed in this country, except to arrest hemorrhage; in leech bites, where the usual means of stopping the bleeding are ineffectual, the application of the end of a heated wire to the wound will, in most cases, be found effectual. Another mode of applying the actual cautery is by means of moxa. This term is used for a small cone or cylinder of some slowly burning substance, applied to the skin, set fire to, and suffered to burn slowly for a length of time proportionate to the effect intended to be produced; this is a very painful operation, and seldom employed in the United States. The chemical cauterants are numerous, and of various degrees of activity. In using the most powerful of them, caustic potassa, some precautions are necessary, owing to its great deliquescence; when it is employed to form an issue, layers of adhesive plaster should be placed on the skin, with a hole of the proper size cut in their centre, through which the caustic can be applied without danger of its spreading. The chloride of zinc, which is an excellent cauterant, is generally employed by forming it into a paste with flour. The chloride of antimony, though very powerful, from being a fluid, is difficult to manage, but has been advantageously used in cases of poisoned wounds.

**EXPECTORANTS** are medicines which promote the expulsion of mucus or other matters from the air-passages. It is an ill-defined class of remedies, and is extremely uncertain in its action; but we cannot, in this place, examine the propriety of retaining a division of the *materia medica*, the articles composing which act in an obscure and by no means regular manner, in almost all cases by a remote or secondary influence of a nauseating or sedative character. At the same time, daily experience proves

that much benefit is derived, in diseases of the respiratory organs, from the administration of substances which are usually considered expectorants, in whatever way they may primarily act on the system. No class of remedies has been more productive of injury than that of so-called cough medicines; nor in any one has quackery exercised a more unbounded sway. It is too common for persons to resort to their use in cough and catarrh without consulting a physician, thus often aggravating a trifling irritation until it becomes a serious, and oftentimes a fatal, inflammation; for, as many of the articles composing them, especially those most frequently employed in domestic and empirical practice, are stimulants, much mischief is apt to follow their indiscriminate use. The following rules ought to be observed in the exhibition of expectorants—ought always to be enforced on the patient. The surface of the body should be kept moderately warm, so as to promote a gentle diaphoresis, and nothing done that may interfere with the primary operation of the remedy on the nervous, lymphatic, or muscular systems, by the secondary effect of which the lungs are benefited; hence, the use of any that excite diuresis, and more especially of purging, should be avoided; nor should the patient be allowed to indulge his appetite in food or drink of a stimulating character.

NARCOTICS are medicines which lessen the manifestation of vital phenomena dependent upon the nervous system, especially deadening sensibility and diminishing the motor power: their full operations shown in sleep, or even coma. The most general objects in view in the administration of these articles are the production of sleep, or the alleviation of pain. No medicines are so much modified in their action by idiosyncrasy and habit. This does not extend to them as a class, but to each individually; hence, it is of importance that a physician should ascertain from a patient, before prescribing a narcotic, whether he has been long or frequently in the habit of using it, or whether it causes any unpleasant effects upon him, so that some other article of the class may be substituted. As regards the time at which a narcotic should be given, it depends upon the cause for which it is to be administered. Thus, if prescribed to allay pain, it may be given at any time, and repeated as long as the pain remains; if to procure sleep, it is best given at night, and so late as to prevent the patient from being disturbed before it produces its full effect; otherwise, it is apt to exercise a stimulating action. In many persons, the secondary effect of opium is to cause much nausea and headache after its narcotic action has ceased, which are best relieved by a cup of strong coffee, or by vegetable acids. When, however, this or any other narcotic produces these consequences, its use should be relinquished, and some other substituted.

REFRIGERANTS are remedies which are supposed to diminish the heat of the body without causing a marked diminution of sensibility or nervous energy, and they are thought to do this, whether administered internally or applied externally; but it is very doubtful whether any medicines act as internal refrigerants independently of the coldness of the medium in which they are administered, except in a secondary manner. Diaphoretics act as refrigerants by inducing an increase of superficial evaporation; sedatives, by lessening the force and rapidity of the circulation; purgatives, and especially the saline, by the copious watery evacuations they produce. The great refrigerant is cold water, whether applied topically or given internally. As a topical application, it is often mixed with fluids of greater volatility, that, by a more rapid evaporation, a proportionate abstraction of heat may take place.

SEDATIVES are those remedial agents which diminish muscular tonicity, and the manifestation of nervous influence, even to the production of syncope, or a suspension, for a certain time, of the functions of the systems affected. Some act generally; others more locally. Blood-letting and tartar emetic are examples of the first; hydrocyanic acid, of the second. Most of the articles of this class are capable, if given in too large doses, or too long continued, of producing a depression of the vital powers which may induce death; and hence require to be administered with much care and judgment.

SIALAGOGUES are medicines which induce an increased secretion from the salivary glands. The modes in which the articles composing this class act are various. Some are merely local irritants, as pellitory, horseradish, &c.; and, when chewed,

produce such a local stimulation of the salivary glands as to produce a copious effusion of saliva and mucus. Another and more important section includes such articles as evince their sialogogue powers in a secondary manner, which does not take place until a powerful impression has been made on the system generally; to this belong mercury, gold, &c., and their preparations. In the first of these divisions, their medicinal powers depend wholly on sialogogue effects; hence, they are merely useful as counter-irritants; the local stimulation, and consequent increased secretion produced by their action, often acting advantageously in relieving inflammations and congestions of adjoining parts. The curative value of internal sialogogues, however, is not dependent on the salivary flow they occasion, for though, in many cases, this may be very great, yet it is not essential to their remedial action, and may, in fact, rather be considered as a proof that their full constitutional influence has been attained.

In administering mercury, with a view to the production of its constitutional effect, it should always be recollected that, if it be permitted to exert its sialogogue powers to any great extent, it always causes great distress to the patient, without producing a beneficial effect on the disease; and its operation should, therefore, be closely watched. The condition of the gums should be examined daily, and, as soon as they display evidence of the action of the remedy, it should be discontinued, or given at longer intervals. The constitution of the patient should be sedulously attended to, as mercurials are apt to produce unpleasant consequences in delicate, nervous individuals, and are badly borne by the aged, who have suffered from previous attacks of illness. It is always dangerous to push them to salivation in children, as it frequently produces sloughing of the gums and cheeks. When too great a degree of salivation has been induced by the mercurials, it is of importance to check it as speedily as possible. This is to be attempted by cool air, and by washing the mouth with an infusion of some vegetable astringent, a solution of opium, or one of acetate of lead; this latter is very efficacious, but has the property of rendering the teeth black. Marked benefit has also been derived from a weak solution of chloride of soda; much reliance is placed by some practitioners on the preparations of sulphur, especially the soluble sulphurets, both as a wash in solution, and administered as a powder. An infusion of the smooth sumach (*rhus glabrum*), as well as a strong solution of borax, has likewise been found very useful as a local application. When the inflammation is severe, the administration of cathartics, especially the saline, is requisite, and in some cases blisters and leeches. Where a tendency to slough exists, the application of diluted pyroligneous acid will be found advantageous.

STIMULANTS are remedies which increase the vital activity of the system, or of a single organ, the first being termed *general*, and the latter *local* stimulants. Much discrimination and caution are required in the administration of articles of this class, because, if given when inflammation is present, they are liable to create more mischief than benefit; but they are called for when, on the decline of that condition of an organ, or organs, a state of relaxation or torpidity exists. In this state of things, a gentle stimulation materially assists the functions, and is productive of much benefit.

TONICS are closely allied to stimulants, and some of them act in this manner; but most of them do not cause any sensible excitation of the system, whilst, at the same time, they gradually impart tone and activity to the vital powers. With the exception of iron, most tonics act primarily on the nervous system, and secondarily on the muscular, on which latter their power is most distinctly marked. Iron appears to act in a different manner, by altering or improving the condition of the blood, and consequently increasing the tone of the system. One of the most valuable properties of many articles of this class is that of curing diseases of a periodic type; in what manner, it is difficult to explain, as the laws that govern periodicity are but little understood.

In prescribing the antiperiodic tonics in fevers, as cinchona and its salts, their use should be confined to the intermissions, and, in most cases, in as large doses as the stomach will bear with impunity, so timing the doses that one may be taken a short time before the expected paroxysm. Quinia and its preparations, although eminently antiperiodic, are not possessed of the tonic properties of the bark itself, and, in the



large doses recommended of late, are apt to induce unpleasant affections of the head, as vertigo, ringing in the ears, headache, and mental delusions. In administering arsenic as antiperiodic, its effects should be carefully watched, and be discontinued when it causes constitutional symptoms, as vertigo, and œdema; nor should it be given in debilitated habits, and where the pulse is weak and feeble. It is better, in all cases, to commence its use in small doses, and to increase them until the stomach is somewhat affected, when the quantity is to be diminished, or even discontinued.

#### MANAGEMENT OF CONVALESCENCE AND RELAPSES.

The management of a patient, after the cessation of an attack of disease, and when he is declared convalescent, is of equal importance with the treatment during the continuance of the malady; and yet it is one strangely neglected by the physician, and is too often trusted to nurses and friends. In all recoveries from sickness, the organs, or parts which have been affected, remain for some time in an excitable condition, and liable to recurrence of the disease on the slightest provocation; and it is of much consequence to inquire what causes operate most frequently in thus producing a relapse. It will be found that they generally consist in the indulgence in food, either in too great quantity, or of an improper character, or in the too early or imprudent exposure to the weather, or in over-exertion of any kind.

*Diet.*—The stomach, in common with every other part of the body, suffers from a diminution of its normal vigor and power of digestion, and, as a necessary consequence, when food of too nutritious a character is taken into it, it is unable to digest it properly; hence, part of it remains in an undigested state, oppressing the weakened organ, and is either rejected by vomiting, or causes diarrhœa; or, if the stomach is capable of converting it into nourishment, an undue stimulation of that organ ensues, which will result in fever. This latter state of things is also induced by the administration of stimulating drinks. No animal substance, in any form, should be allowed during the continuance of acute febrile disease, nor immediately after its cessation. When it is permitted, it should be at first as little stimulating as possible, and in small quantities at a time; but is to be gradually increased in quantity and quality as the patient gains strength. An invalid should be very cautious in the use of certain articles, considered by nurses and others as peculiarly nourishing and proper for the sick, namely, animal jellies of all kinds. These are exceedingly indigestible, even in a state of perfect health—added to which, they are, in most cases, rendered highly stimulating by the addition of wine or spices.

*Exercise.*—Another frequent cause of a relapse is over-exertion, from the common, but erroneous, notion that a convalescent will not recover his strength, except he takes as much exercise as he can bear. Properly regulated exertion is highly serviceable; but it should never be carried so far as to produce exhaustion, and should be pursued for some time in doors, before it be attempted in the open air: the latter, at first, should always take place in a carriage, that can be opened or closed at will; the patient may then attempt short walks in the open air; but, in all cases, it is of importance that he is not unduly fatigued, as otherwise injury instead of benefit will be the result. One of the most serious errors, committed with regard to exertion, is that of permitting a convalescent to sit up too frequently, or for too long a time, under the mistaken notion of giving him strength. A patient should never be allowed to sit up longer than is agreeable to his feelings, and never so long as to produce a sense of fatigue.

*Air.*—Great care must be taken that an invalid is not exposed to cold or damp air, especially if his skin be disposed to moisture; to guard him from sudden changes of temperature, he should wear flannel next to his skin, and have his feet well protected by warm stockings. In every convalescence, from whatever disease, country air is far more invigorating than the vitiated atmosphere of towns; but care must be exercised in the selection of the location, as to its freedom from malaria, &c., for it is far preferable that he should remain within the precincts of the city, than expose himself to the influence of causes which act with peculiar activity on a system debilitated by previous disease.





# UNIVERSAL FORMULARY.

## A

### ABSINTHIUM.

#### WORMWOOD.

This name is applied to several species of *Artemisia*, all, however, possessing the same properties. That recognized in the U.S. Pharmacopœia, and most generally employed, is *A. absinthium*, a native of Europe, and commonly cultivated in our gardens.

*Sex. Syst.* Synges. super. *Nat. Syst.* Asteraceæ. Linn. Sp. Pl. 1188. Griffith, Med. Bot. 405.

The parts used, are the tops or extremities of the branches. These have a grayish-white color; a soft, silky feel, a fragrant odor, and a very bitter taste. They impart their properties to water or alcohol.

Wormwood has been employed as a stimulating tonic, in various forms of dyspepsia, in amenorrhœa, chronic leucorrhœa, gout, verminose affections, &c. It is given in a variety of forms.

#### INFUSION OF WORMWOOD.

R. Wormwood one ounce  
Boiling water one pint  
Infuse. Dose, one to two fl. ounces.  
*Brande.*

#### EXTRACT OF WORMWOOD.

R. Wormwood one part  
Boiling water six parts  
Boil, express, and evaporate to a proper consistence. Dose, ten to twenty grains.  
Tonic and stomachic. *Giordano.*

#### CLYSTER OF WORMWOOD.

R. Wormwood  
Rue  
Savine, each, three drachms  
Boiling water one pint  
Boil, strain, and add to each half pint  
Castor oil half an ounce  
*Foy.*

#### TINCTURE OF WORMWOOD.

R. Wormwood one part  
Alcohol eight parts  
Digest with a gentle heat for five days, express, and filter. Tonic, stomachic, and

vermifuge. Dose, from one fl. scruple to two fl. drachms. *Guibourt.*

#### ALKALINE TINCTURE OF WORMWOOD.

R. Wormwood  
Tansy  
Centaury  
Bog Bean, each, eight parts  
Alcohol one hundred and twenty parts  
Carbonate of Potassa one part  
Digest for six days, and filter. Dose, one or two fl. drachms. In dyspepsia and flatulent colic. *Hoffmann.*

#### SYRUP OF WORMWOOD.

R. Fresh wormwood at will  
Bruise, without washing, express, coagulate the juice by heat, filter, form a syrup with sugar, nine parts to five of juice.  
*Van Mons.*

#### WINE OF WORMWOOD.

R. Wormwood two parts  
White wine fifty parts  
Digest for four days, express, and filter. A stomachic bitter and anthelmintic. Dose, one fl. ounce. *Taddei.*

#### OIL OF WORMWOOD.

R. Tops of wormwood one part  
Olive oil eight parts  
Heat for two hours on a water-bath, stirring often, express, and filter. As an embrocation to the abdomen, in cardialgia, diarrhœa, &c. *Wurtem Ph.*

#### ESSENTIAL OIL OF WORMWOOD.

R. Tops of wormwood at will  
Water sufficient  
Distil, and collect the oil that floats on the product. Dose, two to four drops several times a-day. *Par. Cod.*

#### COMPOUND SPIRIT OF WORMWOOD.

R. Wormwood four pounds  
Juniper eight ounces

Cinnamon two ounces  
 Angelica root half an ounce  
 Alcohol eighteen pints  
 Macerate for fourteen days, distil twelve pints, pour back and re-distil ten pints.

*Guibourt.*

#### RATAFIA OF WORMWOOD.

R. White sugar  
 Water, each, forty ounces  
 Dissolve, and add  
 Orange-flower water six fl. ounces  
 Previously beaten with white  
 of egg one

Then add  
 Compound spirit of  
 wormwood fifty-six fl. ounces  
 Heat on a water-bath, cool, and filter.

*Guibourt.*

### ACACIA.

#### GUM ARABIC.

This gum is derived from several species of *Acacia*, as *A. vera*, *A. senegal*, *A. arabica*, &c.

*Sex. Syst.* Polygam. monœcia. *Nat. Syst.* Fabaceæ.

Willdenow. Sp. Pl. iv. Griffith. Med. Bot. 270.

In tears or fragments of various sizes, often rounded; colorless or of a yellowish tint, semi-transparent, inodorous, of a slightly sweetish mucilaginous taste. Wholly soluble in water, forming a mucilage. Insoluble in alcohol. Demulcent and nutritive.

#### MUCILAGE OF GUM ARABIC.

R. Powdered gum Arabic four ounces  
 Boiling water half a pint

Add the water gradually to the gum, and rub together, till the mucilage is formed. Strain. Principally used to suspend insoluble powders or to diffuse oily and resinous substances through aqueous fluids.

*U. S. Ph.*

#### MIXTURE OF GUM ARABIC.

R. Mucilag. of gum  
 Arabic three fl. ounces  
 Sweet almonds ten drachms  
 Sugar five drachms  
 Water two pints

Blanch the almonds, beat them to pulp with the sugar and mucilage, add the water gradually, constantly stirring. Strain. *Ed. Ph.* Demulcent and emollient. Used to appease cough and to allay irritation.

#### GUM ARABIC MIXTURE.

R. Mucilage of gum Arabic six fl. ounces  
 Oil of sweet almonds three fl. drachms  
 Syrup of saffron one fl. ounce

Solution carbonate ammonia (*Lond.*) half fl. drachm  
 Mix, and make emulsion. A tablespoonful occasionally, in catarrh. *Ainslie.*

#### GUM LOZENGES.

R. Gum Arabic four ounces  
 Starch one ounce  
 Sugar one pound  
 Pulverize, mix, and form a consistent paste with sufficient rose water, to form lozenges of convenient size. A useful article to allay irritation of the throat in catarrh.

#### PECTORAL PASTE OF GUM ARABIC.

R. Gum Arabic two pounds  
 Dissolve in water, and add  
 Sugar one pound and a half  
 Evaporate to a proper consistence, adding  
 Orange-flower water three drachms  
 Employed to allay irritation, like the last. *Foy.*

#### PATE DE GUIMAUVE.

R. Gum Arabic  
 powdered two pounds, four ounces  
 White sugar two pounds  
 Whites of eggs twenty  
 Double orange-flower  
 water six fl. ounces

Dissolve the gum and sugar in a sufficiency of water, strain, next day decant, evaporate by a gentle heat to consistence of honey, add the whites of eggs and stir briskly, continue the evaporation; when almost complete add the orange-flower water, and continue to stir; pour on a marble slab, and keep in a tin box. *Cules.*

#### GUM ARABIC PASTE.

R. Gum Arabic one pound  
 Dissolve on a water-  
 bath, in water eight fl. ounces  
 Evaporate to the consistence of honey.  
 Add

Whites of egg six  
 Orange-flower water two ounces  
 Beat well together. When sufficiently consistent, run into moulds.  
 Used for the same purposes as last. *Beral.*

#### SYRUP OF GUM.

R. Gum Arabic four ounces  
 Sugar one pound  
 Boiling water one pint  
 Dissolve by means of a water-bath, let settle for some time, remove scum, and strain. A good addition to pectoral and other mixtures. *U. S. Ph.* 1830.

#### COMPOUND SYRUP OF GUM ARABIC.

R. Syrup of gum Arabic four fl. ounces

Sulphate of morphine      one grain  
 Oil of sassafras            one drop  
 Hoffmann's anodyne      half fl. drachm  
 Mix. Known as Jackson's cough syrup,  
 and much used in catarrhs, &c. *Jackson.*

#### LINCTUS OF GUM ARABIC.

R. Gum Arabic                      one part  
 Clarified honey                    three parts  
 Incorporate the gum with the honey. The  
 dose is a teaspoonful occasionally, to re-  
 lieve irritation of the throat in catarrh.

*Beral.*

#### WENDT'S MIXTURE OF GUM ARABIC.

R. Mucilage gum Arabic  
 Linden-flower water            equal parts  
 Found useful in doses of a teaspoonful  
 every hour in the diarrhœa of infants.

*Radius.*

#### TRONCHIN'S LOZENGES OF GUM ARABIC.

R. Powdered gum Arabic      eight ounces  
 Precipitated sulphuret  
 of antimony

Anise                      each four scruples

Extract of liquorice            two ounces

Extract of opium                two grains

White sugar                      two pounds

Mix, and form lozenges of six grains, one  
 to be used occasionally in catarrh and  
 bronchial affections. *Tronchin.*

### ACETOSELLA.

#### WOOD SORREL.

*Sex. Syst.* Decand. Pentag. *Nat. Syst.* Oxali-  
 daceæ. Lindley.

*Oxalis acetosella.* Linn. Torrey and Gray, Fl.  
 i. 211. Griffith, Med. Bot. 208.

A native of Europe and the United States.  
 The whole plant is used. It is agreeably acid,  
 from its containing a binoxalate of potassa. It  
 is refreshing and cooling, and is said to be useful  
 in scorbutic affections.

#### EXTRACT OF WOOD SORREL.

R. Wood sorrel                      one part  
 Bruise in a mortar, express the juice, and  
 pour on the marc

Water                                  three parts

Boil for an hour, express, evaporate, add-  
 ing the juice, to the consistence of an ex-  
 tract. Acid and bitter. Dose, a scruple  
 to half a drachm. *Pideret.*

### ACETUM.

#### VINEGAR.

Impure and very dilute acetic acid, contain-  
 ing about five per cent. of real acid. It is the

result of acetous fermentation of any fluid which  
 is susceptible of vinous fermentation. It is prin-  
 cipally obtained in Europe from malt or weak  
 wine, and in this country from cider.

It is employed internally as a refrigerant and  
 diuretic, and is a grateful addition to diluent  
 drinks in febrile affections. It is also sometimes  
 used as a clyster. Externally it is beneficial as  
 a fomentation, and likewise forms a useful addi-  
 tion to gargles and collyria. *U. S. Dis.*

#### VINEGAR MIXTURE.

R. Vinegar                              three ounces  
 Honey                                  two ounces  
 Water                                  three pints

Mix. As a cooling drink in fevers.

*Ammon.*

R. Vinegar                              one ounce  
 Acetic ether                          one drachm  
 Syrup of raspberries              three ounces  
 Water                                  two pints

Mix. As a refreshing drink in fevers.

*Augustin.*

#### MIXTURE OF VINEGAR AND CARDAMOMS.

R. Vinegar                              one drachm  
 Comp. tincture of car-  
 damoms  
 Simple syrup, each,              half an ounce  
 Water                                  ten ounces

Mix. To be taken in such portions as  
 the stomach can bear. In sick headache.

#### VINEGAR PASTILLES.

R. Powdered white sugar          four parts  
 Heat moderately, and add  
 Vinegar                                  one part  
 Make pastilles. *Neuman.*

#### GARGLE OF VINEGAR.

R. Vinegar                              two parts  
 Honey  
 Barley water, each,              eight parts  
 Mix. As a mouth-wash or gargle in in-  
 flamed fauces. *Soubiran.*

R. Vinegar                              two fl. drachms  
 Muriate of ammonia              one drachm  
 Honey                                  one and a half fl. ounces  
 Water                                  twelve fl. ounces

Mix. As a gargle in inflamed fauces.

*Ratier.*

#### SYRUP OF VINEGAR.

R. Vinegar                              eleven fl. ounces  
 Sugar                                  fourteen ounces  
 Boil together. *Ed. Ph.*  
 Mixed with water forms a pleasant and  
 refreshing drink in febrile complaints.

#### VINEGAR CATAPLASM.

R. Vinegar                              one part  
 Flour                                  three parts



Make cataplasm. An astringent and antiseptic application. *Beral.*

#### DISTILLED VINEGAR.

Distil a gallon of vinegar, by means of a sand-bath, from a glass retort into a glass receiver. Discontinue the process when seven pints shall have been distilled, and keep these for use. *U. S. Ph.*

### ACIDUM ACETICUM.

#### ACETIC ACID.

R. Acetate of soda in powder one pound  
Sulphuric acid half a pound  
Red oxide of lead one drachm

Pour the acid into a glass retort, gradually add the acetate of soda, and by means of a sand-bath, at a gentle heat, distil the acetic acid, till the residuum becomes dry. Mix the distilled liquid with the red oxide of lead and again distil, with a moderate heat, to dryness. *U. S. Ph.*

#### DILUTED ACETIC ACID.

R. Acetic acid half a pint  
Distilled water five pints  
Mix. *U. S. Ph.*

#### AROMATIC VINEGAR.

R. Acetic acid one pint  
Camphor two ounces  
Oil of lavender one drachm  
Oil of cinnamon twenty drops  
Oil of cloves  
Oil of rosemary, each, thirty drops  
Mix. *Gray.*

R. Acetic acid one pint  
Oil of cloves one drachm  
Oil of rosemary two scruples  
Oil of bergamot  
Oil of cinnamon, each, half a drachm  
Oil of pimento twenty-four grains  
Oil of lavender one scruple  
Oil of neroli ten drops  
Camphor one ounce  
Alcohol half an ounce  
Mix. *Cooley.*

Aromatic vinegar is used as a pungent and reviving perfume in fainting, &c. As it is corrosive, it should not be allowed to come in contact with the skin or clothes. It is also prepared in the dry way, as follows:

R. Crystallized acetate of soda one drachm  
Sulphuric acid twenty drops  
Oil of lemons

Oil of cloves, each, three drops  
Mix, and keep in a glass-stoppered bottle. *Gray.*

R. Dried rosemary one ounce  
Origanum, each, half an ounce  
Lavender half an ounce  
Bruised cloves half a drachm  
Acetic acid (1.068) one pint and a-half  
Macerate for seven days, strain, express, and filter. *Edin. Ph., 1839.*

#### AROMATIC SPIRIT OF VINEGAR.

R. Strong acetic acid one pint  
Camphor two ounces  
Oil of lavender nine minims  
Oil of cinnamon twenty minims  
Oil of cloves half a drachm  
Mix. To be kept in a glass-stoppered bottle. *Paris Cod.*

#### ACETIC ACID CATAPLASM.

R. Rye meal three parts  
Diluted acetic acid one part  
Mix. Used as an application to ill-conditioned ulcers. *Taddei.*

#### ACETIC ACID CLYSTER.

R. Barley water six ounces  
Diluted acetic acid one to three ounces  
Mix. The proportion of diluted acid may be varied according to the indication. Has been advised in obstinate constipation, ileus, &c. *Swediaur.*

#### PROPHYLACTIC VINEGAR.

R. Dried rosemary and sage, each, one ounce  
Dried lavender flowers half an ounce  
Bruised cloves half a drachm  
Distilled vinegar two pounds  
Macerate for seven days, press, and filter. *Ed. Ph.*

This is intended as a substitute for the complicated formula formerly used, for *Thieves' vinegar*, at one time so celebrated as a preservative against the plague. It has no advantages over it.

#### VINEGAR OF THE FOUR THIEVES.

R. Wormwood  
Roman wormwood  
Rosemary  
Sage  
Mint  
Rue, each, one ounce and a-half  
Lavender flowers two ounces  
Garlic  
Calamus  
Cinnamon  
Cloves  
Nutmegs, each, two drachms  
Distilled vinegar eight pints

Digest by a moderate heat, in a closely stopped matrass, for twelve days, strain, express, and filter, then add one ounce of camphor dissolved in alcohol. *Lewis.*

## ACIDUM ACETICUM EMPYREUMATICUM.

### PYROLIGNEOUS ACID.

Pyroligneous acid is an impure acetic acid, obtained by a destructive distillation of wood. It contains creasote, empyreumatic oil, &c., and has been employed in gangrene to correct the fetor and to promote the separation of sloughs, and also as an application to unhealthy ulcers.

Dispens. U. S. Dunglison, N. R. 13.

### MOUTH WASH.

R. Pyroligneous acid half a fl. ounce  
Cinnamon water four fl. ounces  
Syrup of mulberries two fl. ounces  
Mix. Used as a mouth-wash in cancrum oris. It should be kept in an opaque glass vessel to prevent decomposition. *Phæbus.*

### INJECTION OF PYROLIGNEOUS ACID.

R. Pyroligneous acid two fl. drachms  
Distilled water six fl. ounces  
Mix. In purulent discharges from the ear. *Buchanan.*

### CATAPLASM OF PYROLIGNEOUS ACID.

R. Bran half a pound  
Linseed meal one ounce  
Mix well, and add  
Pyroligneous acid q. s.  
To make a cataplasm.  
As an application to foul ulcers. *Reece.*

## ACIDUM ARSENIOSUM.

### WHITE ARSENIC.

Arsenious acid is found in the shops, in the form of semi-transparent or opaque lumps, or in that of a heavy white powder. It has no smell, and its taste is slightly acrid. It is volatile at a red heat, giving off white fumes of a garlic-like odor. Extremely poisonous and corrosive, even in minute doses. *U. S. Dis.*

### ARSENICAL POWDER.

R. White Arsenic one part  
Calomel one hundred and ninety-nine parts  
Mix. Recommended in obstinate cases of lepra and cancerous ulcers. *Dupuytren.*

### COMPOUND POWDER OF WHITE ARSENIC.

R. White arsenic six drachms  
Powdered dragon's blood two drachms  
Animal charcoal four scruples

Cinnabar three ounces  
Mix, and triturate well. Has been used in the same description of cases. *Van Mons.*

R. White arsenic one part  
Kino eight parts  
Cinnabar sixteen parts

Mix, and triturate well. *Ratier.*  
Employed in the French hospitals as a caustic to cancerous sores.

### ARSENICAL OINTMENT.

R. White arsenic one drachm  
Lard  
Spermaceti cerate, each, six drachms  
Melt the cerate and lard by a gentle heat, and add the arsenic; triturate well in a glass mortar till perfectly united. *Soubéiran.*

### ARSENICAL CERATE.

R. Powdered white arsenic one scruple  
Simple cerate one ounce  
Mix the arsenic with the cerate softened by heat, and triturate well. *U. S. Ph.*

### SOLUTION OF ARSENIC.

R. White arsenic one scruple  
Distilled water two fl. ounces  
Dissolve. This and the foregoing ointment have been employed as applications to cancerous sores, but are always dangerous from the poisonous symptoms induced by the absorption of the arsenic.

### ARSENICAL PILLS.

R. White arsenic two grains  
Powdered opium three grains  
White soap eight grains  
Powdered liquorice root q. s.  
Mix well and divide into twenty pills. Each of these pills contains  $\frac{1}{10}$ th of a grain of arsenic. They have been given in doses of one, two, or three times a-day, according to circumstances, in diseases of an intermittent character. *Ellis.*

### ARSENIC AND PEPPER PILLS.

R. White arsenic one grain  
Black pepper twelve grains  
Gum Arabic two grains  
Distilled water q. s.  
Triturate the arsenic and pepper for a long time, add the gum and water, and rub well together. Make twelve pills; each of which will contain  $\frac{1}{12}$ th of a grain of arsenic. *Guibourt.*

R. White arsenic fifty-five grains  
Powdered black pepper nine drachms  
Conserve of roses sufficient



Mix, and make eight hundred pills. One daily in chronic psoriasis.

*Cazenave and Schedel.*

#### PILLS OF ARSENIC AND OPIUM.

R. Arsenious acid                      two grains  
Powdered opium                      eight grains  
Soap                                      one scruple

Beat together and divide into twenty-four pills. One to be taken three times a-day. Have been found useful in intermittent fevers, periodical headaches, neuralgia, and lepra.

*A. T. Thomson.*

### ACIDUM BENZOICUM.

#### BENZOIC ACID.

R. Benzoin, any convenient quantity, put it into a glass vessel on a sand-bath, gradually increase the heat, and sublime as long as anything ascends. Wrap the sublimate in bibulous paper, and press, to separate the oil, and again sublime.

*U. S. Ph.*

R. Benzoin                              five parts  
Quicklime  
Hydrochloric acid, each,              one part  
Water                                      two hundred parts

Triturate the benzoin with the lime, boil in 100 parts of water, let stand, and when cold pour off the liquid. Boil residuum in 70 parts water, and pour off liquid when cold. Mix the solutions and evaporate to one half, filter, and gradually add the hydrochloric acid, wash the precipitate with the remainder of the water, dry, and sublime by a slow fire.

*Dub. Ph.*

Benzoic acid is in the form of white, feathery hexagonal crystals, when pure having no odor, but usually with an agreeable smell from the presence of oil. The taste is acid acid. It is converted into hippuric acid, and voided by the urine when taken by man, and has been recommended in the uric acid diathesis and gout, but does not appear to be of any benefit. It has, however, been serviceable in catarrh of the bladder, and where there is a secretion of granular mucus with phosphates. It is also beneficial as a stimulating expectorant.

#### MIXTURE OF BENZOIC ACID AND COPAIBA.

R. Benzoic acid                      one drachm  
Balsam copaiba                      half fl. ounce  
White of egg                              q. s.  
Camphor water                      seven fl. ounces

Mix. Dose, two tablespoonfuls three times a-day. Recommended in chronic dysuria and vesical irritation.

*Walker.*

#### POWDER OF BENZOIC ACID AND IPECA-CUANHA.

R. Benzoic acid                      two scruples  
Ipecacuanha                              six grains  
Golden sulphur of antimony                      three grains  
White sugar                              one drachm

Mix, and triturate well. Divide into six powders. Dose, one, four times a-day in barley water. Said to be useful in asthenic pneumonia.

*Phabus.*

#### MIXTURE OF BENZOIC ACID.

R. Benzoic acid  
Sulphur, each,                              one scruple  
Ipecacuanha                              six grains  
Honey                                      six ounces  
Syrup of seneka  
Syrup of squills, each,                      one ounce

Mix. Dose, a teaspoonful, three or four times a-day, in the chronic catarrh of elderly persons.

*St. Marie.*

### ACIDUM BORACICUM.

#### BORACIC ACID.

R. Powdered borax                      forty parts  
Boiling water                              one hundred parts  
Dissolve, and add  
Muratic acid                              twenty-five parts  
Collect the acid, which crystallizes on cooling, on a filter, drain, wash with cold water, and dry at 234° F. If not pure, dissolve and recrystallize.

*Wackenroder.*

If sulphuric acid be used, as is generally advised, it is almost impossible to free the boracic acid from a trace of it.

#### MIXTURE OF BORACIC ACID.

R. Boracic acid                              ten grains  
Oil of sweet almonds  
Syrup of lemons, each,                      one drachm  
Mix. Advised in cardialgia; to be repeated until a cessation of the pain.

*Pierquin.*

#### COLLUTORY WITH BORACIC ACID.

R. Cloves  
Galangal  
Ginger  
Peruvian bark, each,                      two drachms  
Gum lac                                      one and a half drachms  
Benzoin  
Storax, each,                              half a drachm  
Alcohol                                      six fl. drachms  
Acetic acid                              one and a half fl. ounces  
Vingcar                                      five fl. ounces

Macerate, press, and filter, and add

Boracic acid half a drachm  
This has been recommended as a mouth-  
wash in a scorbutic condition of the gums.  
When used it is to be diluted with water.

*Phæbus.*

## ACIDUM CITRICUM.

### CITRIC ACID.

This exists naturally in the juices of many fruits; to obtain it pure, boiling lemon or lime juice is to be saturated with chalk, when carbonic acid is given off, and an insoluble citrate is formed; this is to be washed and decomposed by boiling with dilute sulphuric acid; insoluble sulphate of lime precipitates, and the citric acid remains in solution and crystallizes on evaporation. To purify, dissolve in water and recrystallize.

*Dispens. U. S.*

### ARTIFICIAL LEMON JUICE.

R. Citric acid one ounce  
Distilled water fourteen fl. ounces  
Oil of lemons five drops  
Mix. *Beasley.*

### LOZENGES OF CITRIC ACID.

R. Citric acid three drachms  
White sugar one pound  
Oil of lemons sixteen drops  
Triturate well, and add  
Mucilage of tragacanth q. s.  
Make lozenges of twelve grains each.

*Cottureau.*

### SYRUP OF CITRIC ACID.

R. Citric acid five drachms  
Water ten drachms  
Simple syrup two pounds  
Tincture of fresh lemon peel one drachm  
Dissolve the acid in the water, mix with the syrup at a boiling heat, and, when cold, add the tincture.

*Soubeiran.*

### DRY LEMONADE.

R. Citric acid two drachms  
White sugar four ounces  
Oil of lemons eight drops  
Mix well. A spoonful to a tumbler of water.

*Gray.*

## ACIDUM GALLICUM.

### GALLIC ACID.

It is not certain that this acid exists as such in nature, or whether it arises from the decomposition of tannic acid. It is usually prepared from galls. Many processes have been devised.

R. Decoction of galls at will  
Expose to action of air in a loosely covered vessel for some months; it will grow

mouldy, and become covered with a glutinous pellicle, and gallic acid will be deposited on the sides of the vessel and on the under surface of the pellicle; collect, dissolve, and recrystallize.

*Scheele.*

R. Decoction of galls at will  
Sulphuric acid sufficient  
to precipitate, wash the precipitate with and dissolve by aid of heat in diluted sulphuric acid, boil for a few minutes, let cool, and collect the crystals.

*Liebig.*

Gallic acid is a powerful astringent, and has been found useful in hemorrhages and fluxes, as well as in checking night sweats in phthisis.

### PILLS OF GALLIC ACID.

R. Gallic acid q. s.  
Extract gentian sufficient to form pills of two to five grains each. One to be given every three or four hours.  
Useful in menorrhagia, hematuria, &c.

*Dunghlison.*

### INJECTION OF GALLIC ACID.

R. Gallic acid one scruple to one drachm  
Water two pints  
Mix. Found beneficial in leucorrhœa.

*Dunghlison.*

## ACIDUM HYDROCYANICUM.

### HYDROCYANIC ACID.

R. Ferrocyanuret of potassium two ounces  
Sulphuric acid one ounce and a half  
Distilled water sufficient  
Mix the acid with four fl. ounces of the water, and pour the mixture, when cool, into a glass retort. To this add the ferrocyanuret, previously dissolved in ten fl. ounces of the water. Pour eight fl. ounces of distilled water into a cooled receiver, and having attached the retort, distil on a sand-bath, with a moderate heat, six fl. ounces. Lastly, add to the product five fl. ounces of distilled water, or as much as will render the acid of such strength, that 100 grains will be accurately saturated by 12.7 grains of nitrate of silver.

*U. S. Ph.*

### EXTEMPORANEOUS HYDROCYANIC ACID.

R. Cyanuret of silver fifty grains and a half  
Muriatic acid forty-one grains  
Distilled water one fl. ounce  
Mix the acid with the water, and add the cyanuret, and shake in a well-stopped bottle. Let settle, decant, and keep for use.

*U. S. Ph.*

This acid should be kept in closely stopped

bottles, protected from the light. It is a transparent, volatile liquid, of a cooling and then somewhat irritating taste, and a peculiar smell. It is the most active poison known, and must be used with extreme caution. It is used as an anodyne and antispasmodic, in many diseases. The dose is from one to six drops mixed with gum water or syrup, always beginning with the smallest quantity and gradually increasing.

#### MIXTURE OF HYDROCYANIC ACID.

R. Medicinal hydrocyanic acid one fl. drachm  
Distilled water one pint  
Sugar one ounce and a-half  
Mix. A desertspoonful twice a-day, gradually increasing the dose. *Magendie.*

R. Powdered gum Arabic half an ounce  
Water seven fl. ounces and a-half

Dissolve, and add  
Syrup of tolu half fl. ounce  
Hydrocyanic acid twelve drops

Mix. A tablespoonful every three hours in the cough of phthisis. *S. G. Morton.*

R. Medicinal hydrocyanic acid half a drachm

Powdered sugar candy one ounce and a-half

Syrup of red cabbage  
" Mallow, each, two ounces

" Balsam of tolu

" Maidenhair, each, one ounce

" Poppies

" Cinnamon, each, two drachms

Mix. A spoonful occasionally. *Pierquin.*

#### SYRUP OF HYDROCYANIC ACID.

R. Medicinal hydrocyanic acid four grains and a-half

Clarified syrup one ounce

Mix. Contains  $\frac{9}{16}$  of grain of anhydrous acid. *Magendie.*

#### JULEP OF HYDROCYANIC ACID.

R. Medicinal hydrocyanic acid fifteen drops

Hoffmann's anodyne two fl. ounces

Syrup of marsh mallow three fl. ounces

Mix. A spoonful every two hours. *Pierquin.*

R. Medicinal hydrocyanic acid two to four drops

Syrup of peppermint one fl. ounce

Infusion of linden four fl. ounces

Mix. A spoonful every hour. *Foy.*

#### INJECTION OF HYDROCYANIC ACID.

R. Medicinal hydrocyanic acid one part  
Distilled water four parts

In gonorrhœa. *Foy.*

#### LOTION OF HYDROCYANIC ACID.

R. Hydrocyanic acid half fl. ounce  
Alcohol one fl. ounce

Distilled water ten fl. ounces and a half  
Mix. As lotion, in impetigo.

*A. T. Thomson.*

R. Medicinal hydrocyanic acid two fl. drachms

Lettuce water two pints

Mix. In hepatic affections. *Magendie.*

R. Hydrocyanic acid half fl. drachm

Bicarbonate of soda two drachms

Milk eight fl. ounces

Mix. In milky scall. *A. T. Thomson.*

#### ACIDUM HYDRIODICUM.

##### HYDRIODIC ACID.

R. Tartaric acid two hundred and sixty-four grains

Iodide of potassium three hundred and thirty grains

Dissolve each in one fl. ounce and a half of distilled water. Mix the solutions, shake and let settle, filter, and add distilled water to make up measure of six and a quarter fl. ounces. *Buchanan.*

Has the same properties as iodine; dose, at first a few drops, gradually to half a fl. ounce three times a-day.

#### ACIDUM HYDROSULPHURICUM.

##### SULPHURETTED HYDROGEN.

R. Sulphuret of iron

Sulphuric acid equal parts

Pulverize the sulphuret, and gradually pour on it the acid diluted with three times its weight of water, and collect the gas.

*Van Mons.*

This gas is an active poison, but has been administered in colica pictonum and mercurial affections. It is, however, much employed externally in cutaneous diseases.

##### POWDER AGAINST SALIVATION.

R. Sulphuret of magnesia one drachm

Tartaric acid two scruples

White sugar four scruples

Mix, and divide into twelve powders. One to be taken every three hours in a little water, during the effervescence. *Radins.*

##### HYDROSULPHURETTED BATH.

R. Sulphuret of potash four ounces

Water one pint

Dissolve, and add



Muriatic acid two drachms  
 Pour the whole into the bath.  
 Advised in chronic diseases of the skin,  
 rheumatism, and certain cases of paralysis.  
*Cadet de Gassicourt.*

## ARTIFICIAL SULPHURETTED WATER.

R. Carbonate of soda twelve grains  
 Liquid hydrosulphuric acid two pints  
 Water six pints  
 To be kept in well-closed bottles. Has  
 been recommended in colica pictonum.

*Foy.*

## HYDROSULPHURETTED LOTION.

R. Sulphuret of potash twenty-four parts  
 Water two hundred and fifty parts  
 Dissolve, and add  
 Sulphuric acid one part  
 Used as a wash in chronic diseases of the  
 skin.

*Dupuytren.*

## ACIDUM LACTICUM.

## LACTIC ACID.

R. Sugar six pounds  
 Tartaric acid half an ounce  
 Boiling water twenty-six pounds  
 Mix, and set aside for a few days, then add  
 Old stinking cheese eight ounces  
 well diffused in  
 Curdled acid skimmed  
 milk eight pounds

Powdered chalk three pounds

Place in a warm situation, so as to keep  
 the mixture at a temperature of 86° to 95°.  
 Stir often; in eight or ten days it will  
 solidify into a stiff paste of lactate of lime;  
 now add twenty pounds of boiling water,  
 and half an ounce of caustic lime, boil for  
 half an hour, and filter through linen.  
 Evaporate the liquid to the consistence of  
 syrup, and set aside for four days; remove  
 the lactate of lime, express, agitate with  
 one-tenth of cold water, and express, re-  
 peating this operation two or three times.  
 Now dissolve in twice its weight of boiling  
 water, and for every pound of the lactate,  
 add three and a-half ounces of sulphuric  
 acid diluted with an equal weight of water.  
 Filter the hot liquid through a bag, and  
 boil it with one pound and three-eighths  
 of carbonate of zinc, for every pound of  
 sulphuric acid, for a quarter of an hour.  
 Filter whilst boiling hot, and let stand to  
 crystallize; remove these crystalline crusts  
 of lactate of zinc, and wash them with cold  
 water. Then dissolve them in seven and  
 a-half parts of boiling water, and pass

through the solution a current of sulphu-  
 retted hydrogen, till sulphuret of zinc no  
 longer separates. Filter, boil the liquid,  
 to expel the excess of sulphuretted hydro-  
 gen, and evaporate on a water-bath to the  
 consistence of syrup.

*Bensch.*

The juice of beets is to be permitted to  
 ferment for two months in a warm place,  
 then evaporate to the consistence of syrup,  
 treat with alcohol, evaporate, dissolve the  
 residuum in water, saturate, filter, concen-  
 trate, and crystallize. Dissolve the crys-  
 tals in water, purify by boiling with animal  
 charcoal, filter whilst hot, treat with baryta  
 and then with sulphuric acid; the lactic  
 acid will be set free, and may be concen-  
 trated in vacuo.

*Cottreau.*

Lactic acid is in the form of a colorless syrup,  
 inodorous, but of a very sour taste. It attracts  
 moisture from the air. It has been recom-  
 mended by Magendie in dyspepsia, and may,  
 perhaps, be useful in a phosphatic diathesis.

## LOZENGES OF LACTIC ACID.

R. Lactic acid two drachms  
 Powdered white sugar one ounce  
 Gum tragacanth q. s.  
 Oil of vanilla four drops  
 Mix, and form pastilles of half a drachm  
 each, of which six may be taken during  
 the day. They should be kept dry.

*Magendie.*

## LEMONADE OF LACTIC ACID.

R. Lactic acid one to four drachms  
 Simple syrup two fl. ounces  
 Water two pints  
 Mix. Dose, a cupful several times a-day.

*Magendie.*

## ACIDUM MURIATICUM.

## MURIATIC ACID.

Prepared by distilling common salt in a glass  
 retort with sulphuric acid and water. It has a  
 density of 1.16, a suffocating odor, an acrid and  
 sour taste. Is very volatile. It gives a curdy-  
 white precipitate with nitrate of silver. It is  
 never given internally except in a diluted form.

## DILUTED MURIATIC ACID.

R. Muriatic acid four fl. ounces  
 Distilled water twelve fl. ounces  
 Mix. *U. S. Ph.*

## GASEOUS MURIATIC ACID.

R. Common salt two parts  
 Sulphuric acid three parts  
 Mix. The muriatic acid fumes that arise  
 are considered to be disinfectant, but are  
 much inferior to chlorine.

*Swediaur.*

## MURIATIC ACID BATH.

R. Muriatic acid           ten fl. ounces  
     Water                   fifty gallons  
 Mix. Found useful in some chronic diseases of the skin. *Soubéiran.*

## MURIATIC ACID GARGLE.

R. Muriatic acid           two fl. drachms  
     Honey                  two fl. ounces  
     Barley water           one pint  
 Mix. Useful in the angina of scarlet fever, and in ulceration of the mouth and throat. *Ratier.*

## MURIATIC ACID LOTION.

R. Muriatic acid           one part  
     Water                  sixteen parts  
 Mix. Advised as a wash for chilblains, and also found beneficial in lepra and other skin diseases. *Foy.*

## MURIATIC ACID PEDILUVIUM.

R. Muriatic acid           two fl. ounces  
     Water                  eight pints  
 Mix. Advised by Scott and others in chronic enlargements of the liver and spleen. *Beral.*

## MURIATIC ACID DRAUGHT.

R. Muriatic acid       ten to twenty drops  
     Barley water       eight ounces  
 Mix. Dose, a tablespoonful three or four times a day. Has been advised in stone in the bladder. *Ellis.*

## MURIATIC ACID LINIMENT.

R. Balsam Peru           one drachm  
     Spermaceti  
     White wax  
     Muriatic acid, each,   two drachms  
     Olive oil              two ounces  
     Water                 six ounces  
 Rub well together. To be applied twice a-day. *Ratier.*

## ACIDUM NITRICUM.

## NITRIC ACID.

Nitric acid of the specific gravity 1.5.

## DILUTED NITRIC ACID.

R. Nitric acid           one fl. ounce  
     Distilled water       nine fl. ounces  
 Mix. *U. S. Ph.*  
 Dose, twenty to forty drops, in sweetened water, three times a-day.

## COLLUTORY OF NITRIC ACID.

R. Nitric acid           one fl. scruple  
     Honey of roses  
     Syrup of mulberries, each, half fl. ounce  
 Mix. To touch obstinate venereal ulcers in the mouth. *Phæbus.*

## FOMENTATION OF NITRIC ACID.

R. Nitric acid           one part  
     Distilled water       ninety-six parts  
 Mix. Used to destroy the fetid smell of foul ulcers; also as a wash in itch. *Soubéiran.*

## LOTION OF NITRIC ACID.

R. Nitric acid           half to one fl. drachm  
     Laudanum           one fl. drachm  
     Rose water           six fl. ounces  
 Mix. To wash venereal ulcers. *Phæbus.*

## NITRIC ACID MIXTURE.

R. Nitric acid           two fl. drachms  
     Raspberry syrup     three fl. ounces  
     Sugar               three ounces  
     Water               two pints  
 A wineglassful, with as much Seltzer water, in fetid breath. *Cadet.*

R. Nitric acid           half fl. drachm  
     Water               one pint and a-half  
     Syrup of cinnamon   one fl. ounce and a-half  
 Mix. In syphilis, chronic hepatitis, &c. A spoonful every two or three hours. *Augustin.*

R. Nitric acid           two fl. scruples  
     Opium               two grains  
     Water               two fl. ounces  
     Syrup of cinnamon   half fl. ounce  
 Mix. A spoonful every hour, in barley water. In dysentery, cholera, &c. *Ammon.*

R. Nitric acid           half fl. drachm  
     Gum Arabic  
     Sugar, each,       three drachms  
     Water               eight fl. ounces  
 Mix. A small tablespoonful in water, as occasion may require. As a tonic, to arrest colliquative sweats, &c. *Ellis.*

## OINTMENT OF NITRIC ACID.

R. Olive oil           one pound  
     Lard               four ounces  
     Nitric acid five fl. drachms and a half  
 Melt the oil and lard together in a glass vessel; when, on cooling, they begin to stiffen, add the acid, and stir. *Dub. Ph.*  
 Used as application to porrigo, psora, &c.

## LINIMENT OF NITRIC ACID.

R. Nitric acid           two fl. ounces  
     Oil of turpentine   three fl. ounces  
     Theriac           three drachms  
     Honey           one ounce  
     Alcohol           six fl. ounces  
 Mix. As a rubefacient, has been used in cholera. *Foy.*



## ACIDUM NITRO-MURIATICUM.

## NITRO-MURIATIC ACID.

R. Nitric acid by measure one part  
 Muriatic acid two parts  
 Mix in a refrigerated bottle, and keep in a cool, dark place. *Dub. Ph.*

## NITRO-MURIATIC ACID BATH.

R. Nitro-muriatic acid-bath six fl. ounces  
 Water three gallons  
 Mix. Recommended by Scott as a foot-bath in chronic hepatitis.

## ACIDUM OXALICUM.

## OXALIC ACID.

This acid exists in many plants in combination with lime or potash, but is usually obtained by the action of nitric acid on sugar or starch. It is in the form of colorless, transparent, prismatic crystals, having no odor, but a very acid taste. This acid is an active poison in large doses. It is not used in medicine in this country, but is employed in France.

## LOZENGES OF OXALIC ACID.

R. Powdered oxalic acid one drachm  
 White sugar eight ounces  
 Gum tragacanth two scruples  
 Water of orange peel five drachms  
 Oil of lemons eight drops  
 Mix, and form lozenges of ten grains each. *Cottureau.*

## ACIDUM PHOSPHORICUM.

## PHOSPHORIC ACID.

R. Bones calcined to whiteness five parts  
 Sulphuric acid three parts  
 Water thirty parts  
 Mix, and boil for an hour, constantly stirring, strain, evaporate the fluid to consistence of honey, pour on an oiled slab, and when cold break in pieces. *Van Mons.*

This affords not pure phosphoric acid, but an acid phosphate of lime, yet is the formula recognized by the Batavian, Russian, Prussian, Saxon, &c. Pharmacopœias.

R. Phosphorus one part  
 Nitric acid eight parts  
 Cut the phosphorus in small pieces, and add it very gradually to the acid, placed on a sand-bath; when all the phosphorus has been changed into an acid, evaporate to the consistence of a syrup. *Guibourt.*

## DILUTED PHOSPHORIC ACID.

R. Phosphorus one ounce

Dilute nitric acid four fl. ounces  
 Distilled water ten fl. ounces

Add the phosphorus gradually to the nitric acid and water in a glass retort, on a sand-bath, apply heat, and distil eight fl. ounces. Pour these back into the retort and again distil eight fl. ounces, which reject. Evaporate the residue in a platinum crucible to two ounces and six drachms. When cold, add as much distilled water as will make twenty-eight fl. ounces. *London Ph.*

This acid is stated to be useful in nervous disorders, in lithiasis with phosphatic deposits, in morbid ossifications, in diabetes, to allay thirst, &c., and as a local application in caries. The dose of the dilute acid is from ten drops to a fl. drachm in gum water.

## PILLS OF PHOSPHORIC ACID.

R. Phosphoric acid  
 Assafoetida, each, three drachms  
 Powdered calamus q. s.  
 Make one hundred and eighty pills. Dose, five to ten, three times a-day.  
 Recommended in caries. *Phabus.*

## FOMENTATION OF PHOSPHORIC ACID.

R. Phosphoric acid one ounce  
 Decoction of chamomile eight ounces  
 Mix. Employed in caries, and as injection in fistulas. *Augustin.*

## PHOSPHORIC TINCTURE OF MYRRH.

R. Tincture of myrrh half an ounce  
 Diluted phosphoric acid thirty drops  
 Mix. Used in caries of the teeth or bones. *Augustin.*

## PHOSPHORIC ACID LEMONADE.

R. Diluted phosphoric acid twenty-four drops  
 Simple syrup two ounces  
 Water two pints  
 Mix. Dose, about an ounce to relieve thirst, in diabetes. *Ratier.*

## ACIDUM SULPHURICUM.

## SULPHURIC ACID.

## DILUTE SULPHURIC ACID.

R. Sulphuric acid one fl. ounce  
 Water thirteen fl. ounces  
 Add the acid gradually to the water in a glass vessel, and mix them. *U. S. Ph.*

## ELIXIR OF VITRIOL.

R. Sulphuric acid three and a-half fl. ounces  
 Ginger, bruised one ounce  
 Cinnamon, bruised, one ounce and a-half

Alcohol two pints  
Drop the acid gradually into the alcohol, digest in a close glass vessel for three days, add the ginger and cinnamon, macerate for a week, and then filter. *U. S. Ph.*

#### SULPHURIC ACID AND ALCOHOL.

R. Sulphuric acid four ounces  
Acetic acid  
Alcohol, each, two pounds  
Mix. Vulnerary, antiseptic, and astringent. Dose, internally, twenty or thirty drops, in an appropriate vehicle. Externally, as a lotion to foul ulcers and contusions, and to arrest bleeding. *Campana.*

#### SULPHURIC ACID AND NITRIC ETHER.

R. Sulphuric acid  
Nitric ether equal parts  
Mix very gradually. Dose, five to ten drops in an ounce of water. Found beneficial in spasmodic attacks, sinking, and hemorrhages. *Vogler.*

#### SULPHURIC ACID LEMONADE.

R. Sulphuric acid one part  
Simple syrup thirty-two parts  
Water one hundred and sixty parts  
Mix. As a cooling drink in hemorrhages, and also found useful as a preventive of the effects of lead. *Beral.*

#### SULPHURIC ACID LINIMENT.

R. Sulphuric acid two drachms  
Olive oil two and a-half ounces  
Oil of turpentine one ounce  
Mix. In gentle frictions to chilblains, where the skin is not broken. *Foy.*

#### SULPHURIC ACID OINTMENT.

R. Olive oil eight parts  
Add gradually, constantly stirring,  
Sulphuric acid five parts  
After standing for twenty-four hours, wash well in tepid water, till it will not redden litmus paper.  
Has been used in itch and paralysis, in frictions. *Brugnatelli.*

### ACIDUM TANNICUM.

#### TANNIC ACID.

R. Powdered galls  
Sulphuric ether of each a sufficient quantity  
Put into a glass adapter, loosely closed at its lower end with carded cotton, sufficient galls to fill about one-half of it, pressing the powder slightly. Then fit the adapter accurately to a receiver, fill it with sul-

phuric ether, and close the upper end slightly with a cork. The liquid which passes into the receiver separates into two portions, the lower being the smaller and denser. Pour on additional ether until the lower stratum of liquid in the receiver no longer increases. Separate this, and evaporate to dryness in a capsule by a moderate heat, and reduce to powder. *U. S. Ph.*

Tannic acid is of a yellowish-white colour, of a powerfully astringent taste, soluble in water, less so in alcohol or ether. It is a strong astringent, and has been successfully used in hemorrhages and other fluxes. The dose is from two to ten grains.

#### PILLS OF TANNIC ACID.

R. Tannic acid six grains  
Gum Arabic twelve grains  
White sugar seventy-two grains  
Triturate well, and add  
Simple syrup sufficient  
to make pills of four grains each. Dose, one to four, morning and evening. *Beral.*

#### PILLS OF TANNIC ACID AND OPIUM.

R. Tannic acid half a drachm  
Extract of opium three-quarters of a grain  
Conserve of roses sufficient  
to make twenty pills.  
One every hour, in uterine hemorrhage. *Dumars.*

#### GARGLE OF TANNIC ACID.

R. Tannic acid one drachm  
Honey of roses two ounces  
Rose water two fl. ounces  
Distilled water eight ounces  
Mix. As a gargle, to arrest mercurial salivation. *Beral.*

#### INJECTION OF TANNIC ACID.

R. Tannic acid half a drachm  
Distilled water eight fl. ounces  
Dissolve. In gleet and leucorrhœa. *Beral.*

#### MIXTURE OF TANNIC ACID.

R. Tannic acid twelve grains  
Syrup of rhatany  
Syrup of gum, each, one ounce  
Camphor water four fl. ounces  
Mix. Six to twelve spoonfuls a-day, in diarrhœa. *Beral.*

#### OINTMENT OF TANNIC ACID.

R. Tannic acid  
Distilled water, each, two drachms  
Dissolve, and rub well with  
Lard twelve drachms

## ACIDUM TARTARICUM.

## TARTARIC ACID.

Is prepared from bi-tartrate of potash, by saturating the excess of acid with chalk, and decomposing the insoluble tartrate of lime by means of dilute sulphuric acid, evaporating and crystallizing.

It is cooling and diuretic in doses of a drachm or more.

## LOZENGES OF TARTARIC ACID.

R. Powdered tartaric acid three drachms  
 White sugar one pound  
 Oil of lemons sixteen drops  
 Mucilage of tragacanth sufficient  
 Make into lozenges of twelve grains.  
 Used to allay thirst. *Cottreueu.*

## LEMONADE OF TARTARIC ACID

R. Tartaric acid one drachm  
 White sugar one ounce  
 Water twelve fl. ounces  
 Dissolve. For an agreeable acidulous drink. *Foy.*

## ACIDUM VALERIANICUM.

## VALERIANIC ACID.

R. Valerian forty pounds  
 Distilled water three hundred and twenty pints

Distil, collect the oil, continuing the distillation as long as the water is acid. Agitate the oil with milk of lime; nearly saturate the acid water by milk of lime, first adding that already used, and then fresh; and, lastly, add lime water to excess. Concentrate till a pellicle appears, then decompose by nitric acid in a long, narrow flask with a ground stopper, decant the valerianic acid, which floats on the liquid, and distil it with a gentle heat till the distilled fluid ceases to be oily. *P. L. Bonaparte.*

R. Valerian at will  
 Boil the root for three or four hours with rather more than its bulk of water, in which an ounce of carbonate of soda is dissolved for every pound of the root, replacing the water as it evaporates. Express strongly; boil the residue twice with the same quantity of water, expressing each time. Mix the liquids, add two fl. drachms of strong sulphuric acid for every pound of the root, and distil till three-fourths of the liquid have passed over. Neutralize this by carbonate of soda, concentrate, decompose the valerianate of soda by sulphuric acid, and separate the free valerianic acid by distillation.

*T. and H. Smith.*

## ACONITUM.

## ACONITE. MONKSHOOD.

Many species of Aconitum are official in the various pharmacopœias, but those recognized by the U. S. Ph. are *A. napellus* and *A. paniculatum*, both natives of Europe.

*Ser. Syst.* Polyand. Trigyn. *Nat. Syst.* Ranunculaceæ.

Linn. Sp. Pl. 751. Griffith, Med. Bot. 90.

The whole plant is possessed of highly deleterious properties, but the root is the most powerful. The leaves are, however, principally made use of. They have a somewhat nauseous odor, and a bitterish, acid taste, followed by a peculiar tingling and burning of the lips. They owe their properties to the presence of a peculiar principle called *Aconitina*.

## COMPOUND POWDER OF ACONITE.

R. Powdered aconite leaves  
 Precip. sulph. of antimon., each, one grain  
 Carbonate of magnesia one scruple  
 Mix. As an anodyne and diaphoretic in gout and rheumatism. *Vogler.*

## EXTRACT OF ACONITE.

R. Recent leaves of aconite one pound  
 Moisten with water, bruise in a stone mortar, express the juice, and evaporate to proper consistence. *U. S. Ph.*

R. Recent leaves of aconite a sufficient quantity.  
 Beat to a pulp, express the juice; subject the residuum to displacement with rectified spirit, as long as the liquid is colored; unite the juice and the tincture; filter; distil off the spirit, and evaporate to a proper consistence on a vapor-bath. *E. Ph.*

Both are uncertain preparations; when good, they should cause a numbness and tingling of the lips, in a few minutes after taking. Dose, one to two grains, to be gradually increased.

## ALCOHOLIC EXTRACT OF ACONITE.

R. Monkshood one pound  
 Diluted alcohol two pints  
 Make a tincture by displacement; distil off the alcohol, and evaporate. *U. S. Ph.*  
 Dose, one-sixth of a grain.

## PILLS OF EXTRACT OF ACONITE.

R. Alcohol. extract of aconite one grain  
 Powdered liquorice twelve grains  
 Syrup sufficient  
 to form a consistent mass. Divide into six pills. Dose, one, every three or four hours. *Turnbull.*

## ACONITE PLASTER.

R. A small portion of the alcoholic extract spread over the surface of common adhesive plaster.



This has been highly recommended in neuralgia, over the painful part. *Curtis.*

#### ACONITE OINTMENT.

R. Alcohol. extract of aconite    one part  
Lard    two parts

Recommended as a friction in neuralgia.  
*Turnbull.*

#### COMPOUND WINE OF ACONITE.

R. Alcohol. extract of aconite    one drachm  
Antimonial wine                    one ounce  
Make a solution. Dose, fifteen or twenty drops every three hours, gradually increasing till some effect is produced.

Found beneficial in chronic rheumatism, toothache, neuralgia, &c. *Richter.*

#### TINCTURE OF ACONITE.

R. Aconite                                    four ounces  
Diluted alcohol                        two pints  
Macerate for fourteen days, and filter; or prepare by displacement. Dose, five drops three times a-day. The effects should be carefully watched. In rheumatism, neuralgia, &c. It is also employed as an embrocation to the painful spots, by means of a small piece of sponge attached to a handle. *U. S. Ph.*

#### TINCTURE OF ROOT OF ACONITE.

R. Root of aconite, in  
fine powder,                            sixteen ounces  
Alcohol .835                                sufficient  
Mix the powder with a pint and a-half of the alcohol, macerate for two days, put it into a displacer, cover the surface with a piece of filtering paper, and return the fluid until it becomes clear; then add alcohol in small portions, suffering one to disappear before adding another, until the amount displaced amounts to four pints, reduce this by evaporation to two pints; filter, if necessary. *W. Procter, Jr.*

#### AMMONIATED EXTRACT OF ACONITE.

R. Alcohol. extract of aconite    one drachm  
Water of ammonia                    ten drops  
Evaporate gently, to expel excess of ammonia.

#### AMMONIATED ACONITE OINTMENT.

R. Ammon. extract of aconite    one drachm  
Lard    three drachms  
Rub well together.

Used for the same purposes as the aconite ointment, but more active and pungent. *Turnbull.*

#### MIXTURE OF ACONITE.

R. Tincture of aconite            one fl. drachm  
Carbonate of soda    one drachm and a-half

#### Sulphate of mag-

nesia                                    one ounce and a-half

Water                                    six fl. ounces

Mix. In gastralgia. A tablespoonful, when the pain is urgent. *Fleming.*

#### ACONITINA.

##### ACONITINE.

R. Aconite root, dried and  
bruised,                                    two pounds  
Rectified spirit                            three gallons

Diluted sulphuric acid

Solution of ammonia

Purified animal char-

coal, each,                                sufficient

Boil the aconite with a gallon of the spirit, for an hour, in a retort attached to a receiver. Pour off the tincture, and repeat the operation a second and third time. Then express, mix the tinctures, filter, and distil off the spirit. Evaporate the residue to consistence of an extract. Dissolve this in water, and filter. Evaporate the solution with a gentle heat to consistence of syrup. Add to it the diluted acid mixed with distilled water. Drop in the solution of ammonia, and dissolve the precipitated aconitina in diluted sulphuric acid mixed with water. Then add the animal charcoal, occasionally shaking, for a quarter of an hour. Lastly, filter, and, having again dropped in the solution of ammonia, wash the precipitate and dry it. *Lond. Ph.*

Not used internally, but successfully employed externally in neuralgia, gout, and rheumatism.

##### ACONITINE OINTMENT.

R. Aconitine                                    two grains  
Alcohol                                        six drops

Rub well together, and add

Lard    one drachm  
*Turnbull.*

R. Aconitine                                    sixteen grains  
Olive oil                                        half a drachm  
Lard    one ounce

Incorporate thoroughly. *Turnbull.*

These ointments are employed as frictions in neuralgia, over the painful parts. A small portion, not exceeding the size of a pea, is to be used at a time. The operation to be repeated three or four times a-day.

##### ACONITINE LOTION.

R. Aconitine                                    eight grains  
Alcohol                                        two fl. ounces

Dissolve. Used by means of a friction sponge over the affected part. Never to be employed where the skin is broken or abraded. *Turnbull.*



# ADIANTUM.

## MAIDENHAIR.

Two species of this genus, *A. pedatum* and *A. capillus veneris* have been much used in Europe as remedies in pectoral affections. They are both bitter and aromatic, but the former is the most active, and is a native of the United States. *Sex. Syst. Cryp. Fil. Nat. Syst. Polypodiaceæ.*

## INFUSION OF MAIDENHAIR.

R. Maidenhair three drachms  
Liquorice root two drachms  
Water sufficient  
to obtain two pints of infusion. As a drink in catarrh.

## SYRUP OF MAIDENHAIR.

R. Maidenhair four ounces  
Boiling water three pints  
Infuse for two hours, strain, and add  
Sugar four pounds  
Clarify with white of egg, and add  
Maidenhair two ounces  
Digest for two hours, and strain.

*Cottreave.*

This syrup is known under the name of syrup of capillaire, and is much employed in Europe as a pectoral.

## COMPOUND SYRUP OF MAIDENHAIR.

R. Maidenhair five ounces  
Marsh mallow two drachms  
Asparagus one ounce  
Liquorice root two ounces  
Water two pints  
Boil to a pint and a half, express, strain, and clarify, and add  
Sugar thirty-two ounces  
Make syrup. *Wurtemberg Ph.*

# ÆTHER ACETICUS.

## ACETIC ETHER.

R. Alcohol (36 degrees) three thousand parts  
Acetic acid (10 degrees) two thousand parts  
Sulphuric acid (66 degrees) six hundred and twenty-five parts  
Mix the alcohol and acetic acid in a glass retort, add gradually the other acid, distil this product with a small quantity of carbonate of potassa to obtain three thousand parts. *Cottreave.*

This ether is milder, more agreeable and diaphoretic, than the other ethers. It is used in low fevers, spasmodic vomiting, cardialgia, in doses of ten drops to a drachm.

## SPIRIT OF ACETIC ETHER.

R. Acetic ether one part  
Alcohol three parts  
Mix. This is employed as a substitute for Hoffmann's anodyne, in about the same doses. *Giordano.*

## MIXTURE OF ACETIC ETHER.

R. Acetic ether  
Ethereal tincture of valerian  
Tincture of opium equal parts  
Mix. Dose, from ten to thirty drops, in hysteria and hypochondriasis. *Radiis.*

# ÆTHER HYPONITROSUS.

## NITROUS ETHER.

R. Rectified spirit fifteen fl. ounces  
Pure nitric acid (1.500) seven fl. ounces  
Put the spirit with a little clean sand into a two pint matrass, fitted with a cork, through which are passed a safety tube, terminating an inch above the spirit, and another tube leading to a refrigerator. The safety-tube being filled with pure nitric acid, add through it gradually three and a-half fl. ounces of the acid. When the ebullition which ensues is nearly over, add the rest of the acid gradually, half a fl. ounce at a time, waiting till the ebullition which slowly arises has subsided, and cooling the refrigerator with a stream of water. The ether which distils over, being received in a bottle, is to be agitated first with a little milk of lime, till it ceases to redden litmus paper, and then with half its volume of a concentrated solution of muriate of lime. *Edin. Ph.*

This ether is stimulant, antispasmodic, carminative, and diuretic. The dose is from ten to forty drops.

## SWEET SPIRIT OF NITRE.

R. Hyponitrous ether one part  
Rectified spirit four parts  
Mix. *Edin. Ph.*  
R. Nitrate of potassa, in powder, two pounds  
Sulphuric acid a pound and a-half  
Alcohol nine pints and a-half  
Diluted alcohol one pint  
Carbonate of potassa one ounce  
Mix the nitrate of potassa and the acid in a glass retort, and, having gradually added the alcohol, digest with a gentle heat for two hours; then raise the heat and distil a gallon. To the distilled liquor add the diluted alcohol and carbonate of potassa, and again distil a gallon. *U. S. Ph.*

Diuretic, diaphoretic, and carminative.  
Dose, half a fl. drachm to three fl. drachms.

#### MIXTURE OF SWEET SPIRIT OF NITRE.

R. Sweet spirit of nitre                    one drachm  
Hoffmann's anodyne  
Aromatic ammoniated  
alcohol, each,                    two drachms  
Mint water                    six ounces

Mix. Dose, a spoonful occasionally.

*Brera.*

#### MIXTURE OF HYPONITROUS ETHER.

R. Ipecacuanha                    half a drachm  
Boiling water                    sufficient  
To obtain six ounces of infusion, strain  
and add

Hyponitrous ether                    one drachm

Extract of juniper berries           one ounce

Mix. Dose, a spoonful every two hours,  
in the dropsical swellings consecutive to  
scarlatina.

*Radiis.*

### ÆTHER HYDROCYANICUS.

#### HYDROCYNIC ETHER.

R. Cyanuret of potassium

Sulpho-vinate of barytes, equal parts  
Mix, and put in a glass retort, distil by a  
moderate heat. The product separates  
into two strata, the lighter of which is im-  
pure hydrocyanic ether; this is to be sepa-  
rated and agitated with four or five times  
its bulk of water at 120° to 140° F., again  
agitated with a little water, decanted, and  
placed in contact with chloride of lime for  
twenty-four hours, and then distilled.

*Magendie.*

This preparation is said to resemble hydro-  
cyanic acid in its therapeutical effects, but is less  
active. Its smell is, however, penetrating and  
offensive. The dose is two to six drops, in mu-  
cilage or emulsion, in obstinate or convulsive  
coughs.

### ÆTHER MURIATICUS.

#### MURIATIC ETHER.

R. Muriatic acid  
Alcohol                    equal parts  
Distil in a Wolf's apparatus, and preserve  
the product contained in the second re-  
ceiver.

*Cottureau.*

It has much the same properties as the other  
ethers. Dose, thirty to forty drops.

#### SPIRIT OF MURIATIC ETHER.

R. Muriatic ether  
Alcohol                    equal parts  
Mix.                    *Cottureau.*

#### MIXTURE OF MURIATIC ETHER.

R. Spirit of muriatic ether   half a drachm  
Parsley water  
Syrup of rhubarb, each,           one ounce  
Mix. A teaspoonful every hour for young  
children as a diuretic.           *Wendt.*

### ÆTHER SULPHURICUS.

#### SULPHURIC ETHER.

This is commonly known under the name of  
ether. It is an energetic diffusible stimulant, and is  
much employed as an excitant and antispasmodic  
in what are termed nervous disorders. It is also  
considered to be anthelmintic. In vapor it has  
been used in small quantities as an inhalation in  
chronic irritations of the lungs, and of late under  
the name of *letheon* to induce unconsciousness  
to pain in surgical operations. The dose of the  
fluid is from half a fl. drachm to two drachms.  
When employed as an inhalation it should be  
purified.

#### RECTIFIED SULPHURIC ETHER.

R. Sulphuric ether           fourteen fl. ounces  
Potassa                    half an ounce  
Distilled water           eleven fl. ounces  
Dissolve the potassa in two fl. ounces of  
the water, and add the ether to the solu-  
tion, shaking well; then distil at 120° F.  
twelve ounces of rectified ether. Shake  
the distilled fluid with nine fl. ounces of  
water, and set them by for the water to  
subside, then pour off the ether and keep  
in a well-closed bottle.           *U. S. Ph.*

#### ETHEREAL OIL.

R. Alcohol                    two parts  
Sulphuric acid                    four parts  
Mix. Distil till a black froth begins to  
arise, remove the retort from the fire, when  
cool, add water to the fluid in the receiver,  
and remove the oil that may float on the  
surface. Agitate this with a solution of  
potassa and separate the ethereal oil.

*Van Mons.*

#### SPIRIT OF SULPHURIC ETHER.

R. Rectified sulphuric ether   half a pint  
Alcohol                    one pint  
Mix.                    *U. S. Ph.*

#### HOFFMANN'S ANODYNE.

R. Spirit of sulphuric ether           one pint  
Ethereal oil                    two fluidrachms  
Mix.                    *U. S. Ph.*

#### LOTION OF SULPHURIC ETHER.

R. Sulphuric ether           two fl. ounces  
Vinegar                    six fl. ounces  
Rose water                    four fl. ounces  
Distilled water                    two pints

Mix. As a lotion to painful inflammatory tumors. *Pierquin.*

#### SYRUP OF SULPHURIC ETHER.

R. Sulphuric ether one fl. ounce  
Syrup one pint

Mix in a glass vessel, having a stop-cock at the lower part, shake occasionally for a week, and draw off when clear into small bottles. *Par. Cod.*

Dose, half an ounce to an ounce.

R. White sugar twenty-one ounces  
Distilled water six ounces  
Sulphuric ether two ounces

Mix, and pour into a closed flask, agitate for some minutes, and add

Distilled water six ounces  
Agitate occasionally for five days, filter in a covered funnel. *Paton.*

#### MIXTURE OF SULPHURIC ETHER AND CAMPHOR.

R. Camphor mixture seven fl. ounces  
Sulphuric ether

Syrup of saffron, each, half fl. ounce  
Mix.

#### MIXTURE OF SULPHURIC ETHER AND TURPENTINE.

R. Sulphuric ether one fl. drachm  
Oil of turpentine two fl. drachms  
Sugar four drachms  
Water two fl. ounces

Mix. Two fl. drachms every quarter of an hour in poisoning by nux vomica. *Orfila.*

### ÆTHER TEREBINTHINATUS.

#### TEREBINTHINATED ETHER.

R. Alcohol two pounds  
Spirit of turpentine half a pound

Mix, and add gradually

Nitric acid two pounds  
Distil off one-half at a gentle heat. Dose, from twenty to forty drops, in syrup or mucilage. Used internally and externally in cases of biliary calculi, jaundice, engorgements of the liver, and rheumatism. *Cadet.*

### ALETRIS.

#### STAR GRASS.

Aletris farinosa. Linn. Bigelow. Am. Med. Bot. iii. 50. Griffith, Med. Bot. 623.

*Ser. Syst.* Hexandria monogynia. *Nat. Syst.* Hamoraceae. Brown.

A native plant, with an intensely bitter root, which is the officinal portion. The powder is tonic in doses of ten grains.

#### TINCTURE OF ALETRIS.

R. Aletris root, bruised, three ounces  
Diluted alcohol two pints

Make tincture by displacement. Dose, half an ounce to an ounce in colic, and in smaller doses in chronic rheumatism.

### ALLIUM, U. S.

#### GARLIC.

Several species of *Allium* have been employed in medicine, but the most important, and that recognized by the Pharmacopœia, is *A. sativum*. Linn. Griffith, Med. Bot. 653. The part used is the bulb, which is composed of several bulb-lets or *cloves* (*spicæ*), surrounded by a dry, white, thin capsular membrane. These cloves have a peculiar odor, and an acrid and pungent taste. The properties depend on the presence of a volatile oil, and are lost on drying.

*Ser. Syst.* Hex. monog. *Nat. Syst.* Liliaceae.

Garlic is a stimulating expectorant; diuretic and diaphoretic when given internally, and acts as an irritant, or even vesicant, when applied externally. The dose in substance is from half a drachm to a drachm, or more.

#### SYRUP OF GARLIC.

R. Fresh garlic two ounces  
Distilled vinegar one pint  
Sugar two pounds

Macerate the garlic in the vinegar, in a glass vessel, for four days, express, and permit dregs to subside. Add sugar and form syrup *s. a.* *U. S. Ph.*

As an expectorant in chronic catarrhs, well suited for children. Dose, for a child, about a teaspoonful.

#### CATAPLASM OF GARLIC.

Bruised cloves of garlic, mixed with common bread and milk poultice, in different proportions. Used as a revulsive, but less active than the mustard cataplasm.

#### LINIMENT OF GARLIC.

R. Garlic  
Lard equal parts

To be well rubbed together. Has been recommended as a revulsive in infantile nervous and convulsive disorders.

*Gassicourt.*

#### CAPILLARY LOTION.

R. Garlic three or four cloves  
Alcohol two pints

Macerate for thirty-six hours, filter, and add of

Burdock eight ounces

The head to be sponged with this every evening, for some weeks. It is said to be efficient to promote the growth of hair. *Phæbus.*



## A L O E .

## A L O E S .

Under this name are included the inspissated juices of several species of aloes, and especially of *A. vulgaris*, *A. socotrina*, and *A. spicata*.

*Sex. Syst.* Hexandria monogynia. *Nat. Syst.* Liliacæ.

Pereira, Mat. Med. ii. 113. Griffith, Med. Bot. 649.

Three varieties of aloes are found in the shops, the Cape, Socotrine, and Hepatic. The second, when genuine, is the most esteemed, but the first is by far the most abundant, and, when good, answers every purpose for which the drug is used.

*Dispens. U. S. art. Aloe.*

## POWDER OF ALOES.

R. Aloes six grains  
White sugar one drachm  
Pulverize very finely. Recommended to be blown in the eye, to remove films and specks on the cornea. *Radius.*

## POWDER OF ALOES AND CANELLA.

R. Aloes one pound  
Canella bark three ounces  
Powder separately, and mix. Dose, five to fifteen grains. A popular emmenagogue, known as *Hiera Picra*.

## COMPOUND POWDER OF ALOES.

R. Aloes an ounce and a half  
Guaiacum resin one ounce  
Compound powder of cinnamon half an ounce  
Powder the aloes and resin separately, and then mix them with the compound powder of cinnamon. Dose, ten to twenty grains. Used as a purgative and diaphoretic.

*London Ph.*

## EMMENAGOGUE POWDER.

R. Iron rust six grains  
Powdered aloes two grains  
Magnesia thirty grains  
Mix. For a single dose, to be repeated three times a-day. *Brera.*

## A L O E S P I L L S .

R. Powdered aloes  
Soap, each, an ounce  
Form a mass, to be divided into two hundred and forty pills. Dose, one to three as a laxative, five or more as a purgative. *U. S. Ph.*

## COMPOUND PILLS OF ALOES.

R. Powdered aloes half a drachm  
" rhubarb one drachm  
Oil of cloves four drops  
Soap eight grains  
Syrup of rhubarb sufficient  
Rub well together, and form forty pills.

In tardy menstruation, one at night or oftener if required, so as to open bowels but not to purge. *Devees.*

R. Powdered aloes one ounce  
Extract of gentian half an ounce  
Oil of caraway forty minims  
Beat together till incorporated. *London Ph.*  
Dose, five to fifteen grains. A valuable purgative in habitual costiveness.

## A L O E S A N D A S S A F E T I D A P I L L S .

R. Powdered aloes  
Assafetida  
Soap, each, half an ounce  
Beat with water to form a mass; divide into one hundred and eighty pills. Dose, two to five. Useful in costiveness with flatulency. *U. S. Ph.*

## A L O E S A N D M Y R R H P I L L S .

R. Powdered aloes two ounces  
Powdered myrrh one ounce  
Saffron half an ounce  
Syrup sufficient  
Beat together, to form a mass; divide into four hundred and eighty pills. *U. S. Ph.*  
Dose, from three to six. A well-known cathartic and emmenagogue, under the name of Rufus' pills.

## A L O E S A N D I R O N P I L L S .

R. Aloes two parts  
Sulphate of iron three parts  
Aromatic powder six parts  
Conserve of red roses eight parts  
Pulverize the aloes and sulphate of iron, mix the whole ingredients and beat into a mass, and divide into five grain pills. Dose, one to three. *Edin. Ph.*

A useful emmenagogue in chlorosis and atonic amenorrhæa.

## C H A P M A N ' S A P E R I E N T P I L L S .

R. Aloes sixteen grains  
Powdered rhubarb twenty-four grains  
Mastic twelve grains  
Mix, and make twelve pills. *Chapman.*

## C H A P M A N ' S A N T I - D Y S P E P T I C P I L L S .

R. Aloes half a drachm  
Powdered ipecacuanha ten grains  
Mastic thirty grains  
Oil of fennel eight drops  
Mix, and make twenty pills. *Chapman.*

## M I T C H E L L ' S A P E R I E N T P I L L S .

R. Aloes sixteen grains  
Powdered rhubarb thirty-two grains  
Calomel two grains  
Tartar emetic one grain  
Mix, and make sixteen pills.

*J. K. Mitchell.*



## HOOPER'S PILLS.

- R. Aloes four hundred parts  
 Sulphate of iron two hundred parts  
 Extract of black hellebore  
 Myrrh  
 Soap, each, one hundred parts  
 Powdered canella  
 Powdered ginger, each, fifty parts  
 Break into a mass with water, and divide into pills of two and a-half grains.

Much used as cathartic and emmenagogue.  
*Journ. Phil. Col. Pharm.* v. 25.

## ANDERSON'S PILLS.

- R. Aloes seven hundred and eighty-seven parts  
 Soap one hundred and thirty-one parts

Colocynth  
 Gamboge, each, thirty-three parts  
 Oil of aniseed sixteen parts  
 Reduce the aloes, colocynth, and gamboge to a very fine powder, add oil of aniseed and soap, and beat into a mass with water; divide into three grain pills. A mild purgative. *Journ. Phil. Col. Pharm.* v. 25.

## LADY WEBSTER'S PILLS.

- R. Aloes six drachms  
 Mastich  
 Red rose-leaves, each, two drachms  
 Syrup of wormwood sufficient  
 to form a mass. Divide into three grain pills, used as a laxative in costiveness, dependent on impaired digestion. Dose, one to three. A better form is to substitute powdered rhubarb for the rose-leaves.

*Cooley.*

## MORRISON'S PILLS.

- No. 1. R. Aloes  
 Cream of tartar equal parts  
 Mucilage sufficient  
 to form mass.

- No. 2. R. Aloes three parts  
 Gamboge two parts  
 Colocynth one part  
 Cream of tartar four parts  
 Powder finely, and add  
 Simple syrup sufficient  
 to form mass. Dose, five to ten grains.  
 These purge actively, especially No. 2.

*Cooley.*

## FULLER'S PILLS.

- R. Aloes half a drachm  
 Senna  
 Myrrh, each, one scruple  
 Assafetida  
 Galbanum, each, ten grains

- Saffron  
 Mace, each, five grains  
 Sulphate of iron two scruples  
 Simple syrup sufficient  
 to form mass. Dose, five to fifteen grains,  
 used as an antispasmodic and aperient.  
*Cooley.*

## JAMES' ANALEPTIC PILLS.

- R. Antimonial powder  
 Resin of guaiacum  
 Aloes and myrrh pill equal parts  
 Syrup sufficient  
 Form a mass, and divide into four grain pills. A diaphoretic purgative. *Cooley.*

## PETERS' PILLS.

- R. Aloes  
 Jalap  
 Scammony  
 Gamboge, each, two drachms  
 Calomel one drachm  
 Beat into a mass with alcohol. A powerful purgative. *Cooley.*

## SPEEDIMAN'S PILLS.

- R. Aloes  
 Myrrh  
 Rhubarb, each, one ounce  
 Extract of chamomile half an ounce  
 Beat into a mass with syrup, and divide into four grain pills. A good tonic and stomachic purge. *Burnett.*

## SPLENETIC PILLS.

- R. Strained aloes  
 Gum ammoniac, each, an ounce and a-half

Myrrh  
 Bryony, each, two drachms  
 Beat into a mass, and divide into four grain pills. Dose, three to five. Extolled in amenorrhœa and hypochondriasis.  
*Saunders.*

## DUCHESNE'S PILLS.

- R. Aloes  
 Gum ammoniac, each, twenty-four grains  
 Myrrh six grains  
 Mastich  
 Carbonate of potassa, each, two grains  
 Saffron one grain  
 Simple syrup sufficient  
 to make a mass. Dose, from ten to twenty grains. Prescribed in engorgements of the abdominal viscera, supervening on inter-mittent fevers. *Van Mons.*

## ANTICHLOROTIC PILLS.

- R. Aloes  
 Iron rust, each, half a drachm

Gum ammoniac one drachm  
 Extract of dandelion sufficient  
 to form mass. Divide into pills of three  
 grains each. Dose, three to six, morning  
 and evening, in chlorosis and amenorrhœa.  
*Radiis.*

## BICKER'S PILLS.

R. Iron rust two drachms  
 Sulphur  
 Myrrh  
 Aloes, each, one drachm  
 Beef gall sufficient  
 to form mass. Divide into four grain pills.  
 Six, morning and evening. *Radiis.*

## WHYTT'S PILLS.

R. Chloride of iron  
 Aloes  
 Extract of horehound, each, half a  
 drachm  
 Assafetida one drachm and a half  
 Form a mass. Divide into two grain pills.  
 Dose, four to five, three times a day, in  
 leucorrhœa and hysteria with constipation.  
*Radiis.*

## BARTHEZ'S PILLS.

R. Aloes half a drachm  
 Myrrh one drachm  
 Musk twenty grains  
 Camphor ten grains  
 Balsam Peru sufficient  
 to form mass. Dose, eight grains, three  
 times a day. Advised in amenorrhœa and  
 chlorosis. *Pierquin.*

## PITSCHAFT'S ECCOPROTIC PILLS.

R. Strained aloes  
 Sulphate of quinine, each, one scruple  
 Mix, and divide into twenty pills. Dose,  
 one from time to time in the evening.  
 Found useful in torpor of the large intes-  
 tines. *Radiis.*

## FRANK'S PILLS.

R. Aloes  
 Jalap, each, four parts  
 Rhubarb one part  
 Syrup of wormwood sufficient  
 to form mass. Divide into three grain  
 pills. Dose, one to four during the day.

These are the *Grains de Santé*, so much em-  
 ployed as dinner pills in Europe. *Foy.*

## ALOE AND RHUBARB PILLS.

R. Powdered aloes  
 Rhubarb, each, half a drachm  
 Soap sufficient  
 to form mass. Divide into twenty-five  
 pills. Three or four occasionally in dys-  
 pepsia with costiveness. *Ellis.*

## GRIFFITTS' PILLS.

R. Powdered rhubarb one drachm and  
 a half  
 Sulphate of iron half a drachm  
 Soap two scruples  
 Water sufficient  
 to form mass. Divide into forty pills.

A favorite remedy with the late Dr. S. P.  
 Griffiths, to remove costiveness and impart tone  
 to the bowels. Three or four, to be taken at  
 bed time.

## APERIENT PILLS.

R. Aloes  
 Rhubarb, each, one drachm  
 Ipecacuanha six grains  
 Soap one scruple  
 Form mass with water, and divide into  
 sixty-four pills. Dose, one at bed time,  
 as an aperient; two or three as a purga-  
 tive. *Ellis.*

## PILLS OF ALOES AND BLUE MASS.

R. Blue mass. one scruple  
 Powdered aloes twenty-five grains  
 Incorporate, and divide into fifteen pills.  
 Dose, one every two hours till they ope-  
 rate. Useful in constipation where there is  
 a deficiency of bile. *Ellis.*

## LAXATIVE ELECTUARY.

R. Aloes eight grains  
 Cream of tartar two drachms  
 Honey sufficient  
 to form electuary. For a single dose.  
 Advised in amenorrhœa attributed to ab-  
 dominal engorgement. *Breva.*

## ANTHELMINTIC SUPPOSITORY.

R. Aloes half an ounce  
 Common salt three drachms  
 Flour two ounces  
 Honey sufficient  
 to form a firm paste. As a suppository in  
 cases of ascariides. *Foy.*

## COMPOUND DECOCTION OF ALOES.

R. Extract of liquorice seven drachms  
 Carbonate of potassa one drachm  
 Powdered aloes  
 myrrh  
 Saffron, each, one drachm and a-half  
 Compound tincture of cardamoms  
 seven fl. ounces

Distilled water one pint and a-half  
 Boil down the liquorice, carbonate of po-  
 tassa, aloes, myrrh, and saffron with the  
 water to a pint, strain, and add the com-  
 pound tincture of cardamom. Dose, half  
 a fl. ounce to two fl. ounces. A mild ca-  
 thartic, tonic, antacid, and emmenagogue.  
*Lond. Ph.*

CLAUDER'S ELIXIR.

R. Carbonate of potassa  
 Muriate of ammonia, each, one ounce  
 Elder-flower water a pint and a-half  
 Make a solution, and add  
 Strained aloes  
 Myrrh, each, one ounce  
 Saffron two drachms  
 Digest for twenty-four hours, and filter.  
 Dose, half a drachm to a drachm. Has  
 been recommended in obstructions of the  
 abdominal viscera, in amenorrhœa, consti-  
 pation, scurvy, &c. *Pideret*

DETERSIVE INJECTION.

R. Strained aloes ten grains  
 Muriate of ammonia four grains  
 Honey of roses one ounce  
 Fennel water six ounces  
 Make solution, and filter. Stated to be  
 useful in chronic discharges from the ure-  
 thra, to be injected three or four times a  
 day. *Soubeiran.*

ANTHELMINTIC CLYSTER.

R. Powdered aloes one drachm  
 Barley water one pint  
 Mix. Very effectual against ascarides in  
 the rectum. *Radius.*

ALOEIC MIXTURE.

R. Strained aloes  
 Myrrh, each, one drachm  
 Cream of tartar half an ounce  
 Myrrh water six ounces  
 Make solution, and filter. Dose, a spoon-  
 ful night and morning, to provoke hemor-  
 rhoids. *Foy.*

WINE OF ALOES.

R. Aloes one ounce  
 Cardamom  
 Ginger, each, one drachm  
 Wine one pint  
 Macerate for fourteen days, occasionally  
 agitating, then filter. *U. S. Ph.*  
 Purgative, in doses of half an ounce to  
 two ounces, stomachic and tonic, in doses  
 of one to two drachms.

ALKALINE WINE OF ALOES.

R. Aloes  
 Myrrh  
 Saffron, each, one ounce  
 Carbonate of potassa two ounces  
 Wine two pints  
 Digest for ten days, and filter. Bitter,  
 tonic and stimulant. Recommended in  
 dyspepsia with pyrosis, in doses of an  
 ounce. *Swediaur.*

BALSAMIC WINE OF ALOES.

R. Aloes  
 Myrrh  
 Olibanum  
 Angelica, each, half an ounce  
 Balsam Peru one ounce  
 Storax two ounces  
 Benzoin three ounces  
 Flowers of hypericum four handfuls  
 Wine four pints  
 Macerate for fourteen days, and strain.

TINCTURE OF ALOES.

R. Powdered aloes one ounce  
 Liquorice three ounces  
 Alcohol half a pint  
 Distilled water one pint and a-half  
 Macerate fourteen days, and filter. Dose,  
 two drachms to an ounce. Purgative and  
 stomachic. *U. S. Ph.*

TINCTURE OF ALOES AND MYRRH.

R. Powdered aloes three ounces  
 Saffron one ounce  
 Tincture of myrrh two pints  
 Macerate for fourteen days, and filter.  
*U. S. Ph.*

R. Tincture of aloes three ounces  
 Tincture of myrrh four ounces  
 Tincture of saffron three ounces  
 Mix. *Soubeiran.*

Long celebrated under the name of *elixir pro-*  
*prietatis*. It is purgative, stomachic, and em-  
 menagogue. The dose is half a drachm to a  
 drachm. Well suited to cold, torpid habits.

ETHEREAL TINCTURE OF ALOES.

R. Myrrh one ounce and a-half  
 Spirit of sulphuric ether one pound  
 Digest for four days, and add  
 Aloes one ounce and a-half  
 Saffron one ounce  
 Again digest for four days, and filter.  
*Edin. Ph.*

This tincture has been highly esteemed as  
 stomachic, vermifuge, and emmenagogue, in  
 doses of half a drachm to a drachm.

BOERHAAVE'S ELIXIR.

R. Aloes  
 Myrrh  
 Saffron, each, one ounce  
 Tartrate of potassa two ounces  
 Alcohol fourteen ounces  
 Distilled water eight ounces  
 Macerate for three days, and filter.  
*Han. Ph.*

This has been highly praised in visceral ob-  
 structions. The dose is from half a drachm to  
 a drachm.



## STOUGHTON'S ELIXIR.

R. Aloes	
Cascarilla, each,	one drachm
Rhubarb	four drachms
Wormwood	
Germander	
Gentian	
Orange peel, each,	six drachms
Alcohol	two pints

Macerate for four days, and filter. *Foy.*

Stimulant, tonic, and stomachic, in doses of twenty or thirty drops.

## ELIXIR OF GARUS.

R. Saffron	one ounce
Myrrh	two ounces
Aloes	ten ounces
Cinnamon	
Nutmeg, each,	half an ounce
Orange-flower water	one pound
Alcohol	sixteen pounds

Macerate for two days and distil off eight pounds, to which add

Syrup of maidenhair	two pounds
And color with caramel, dissolved in	
Orange-flower water	eight ounces

This preparation can scarcely be considered as a medicine, but is rather an agreeable liqueur. *Soubéiran.*

## OINTMENT OF ALOES.

R. Powdered aloes	two drachms
Lard	one ounce

Triturate well.

Has been recommended as a friction to the abdomen as a vermifuge in children.

*Soubéiran.*

## ALTHÆA.

## MARSH MALLOW.

Several species of Mallow are employed in medicine, but that which is officinal is *A. officinalis*, a herbaceous perennial, with pale purplish flowers, a native of Europe, in moist situations.

*Ser. Syst.* Monadelph. Polyand. *Nat. Syst.* Malvaceæ.

Linn. Sp. Pl. 966. Griffith, Med. Bot. 161.

The parts used are the roots and leaves. These are inodorous, and have a vapid mucilaginous taste. They are much employed in Europe as demulcent and emollient, but their place is supplied in this country by other articles.

## DECOCTION OF MARSH MALLOW.

R. Marsh mallow dried	four ounces
Raisins, stoned,	two ounces
Water	seven pints

Boil down to five pints. Strain, and set aside until the dregs have subsided, and decant. *Dub. Ph.*

A good demulcent drink.

## SYRUP OF MARSH MALLOW.

R. Marsh mallow root	eight ounces
Sugar	two and a-half pounds
Water	four pints

Boil down the water with the root to one half, and press out the cooled liquor. Set by for dregs to subside, then decant, add the sugar, and boil to proper consistence.

*Lond. Ph.*

A demulcent, but not equal to the syrup of gum Arabic.

## MARSH MALLOW PASTE.

R. Marsh mallow root powdered	
Wheat flour, each,	three parts
White sugar	six parts
Mucilage of gum Arabic	two parts
Mix, and form paste.	<i>Beral.</i>

A good demulcent in irritation of the throat.

## MARSH MALLOW LOZENGES.

R. Powdered mallow root	one part
White sugar	seven parts
Mucilage of tragacanth	sufficient
Form into lozenges of sixteen grains each.	<i>Cottureau.</i>

## MARSH MALLOW OINTMENT.

R. Flaxseed	
Mallow root, each,	one pound
Water	sufficient
to make a thick mucilage; strain, and add	
Lard, melted,	six pounds
Evaporate, and add	
Resin	eight ounces
Turpentine	
Yellow wax, each,	one pound
Melt the whole together.	<i>Beral.</i>

## POWDER OF MARSH MALLOW.

R. Powdered mallow root	
liquorice root, each,	three ounces
nitre	half an ounce
camphor	one drachm
Mix, and divide into thirty powders; one to be taken three times a-day.	<i>Foy.</i>

## ALUMINA.

## ALUMINE.

The hydrate, of alumine is found naturally in an impure state in the form of different clays, boles, &c., and can be prepared in a pure state by the decomposition of alum.

## HYDRATE OF ALUMINE.

R. Alum	any quantity
Distilled water	sufficient
to dissolve the salt, add gradually a solution of carbonate of potassa, digest at a moderate temperature for a short time,	



until a precipitate no longer takes place, wash this carefully, and dry. *Sax. Ph.*

#### RUST'S ASTRINGENT.

R. Armenian bole  
Carbonate of magnesia  
White sugar, each, two drachms  
Oil of mace two drops  
Rhubarb one drachm  
Mix, and triturate well. *Radius.*  
Dose, a teaspoonful three times a-day, in chronic gonorrhœa, vaginal and uterine catarrh and slight menorrhagia.

#### ELECTUARY FOR THE TEETH.

R. White bole an ounce and a half  
Gum lac half an ounce  
Cinnamon a drachm and a half  
Syrup of pinks sufficient  
to form soft paste. Triturate well together and keep in closed boxes. Used as a dentifrice, but also beneficial in scorbutic gums. *Swediaur.*

#### ALUMINÆ ACETAS.

##### ACETATE OF ALUMINE.

R. Alum a sufficient quantity  
Dissolve in water, precipitate by means of aqua ammonia, filter, and dissolve the moist precipitate in acetic acid, and again filter.

This has been recommended diluted with water in chronic diarrhœa, and mixed with syrup of poppies in slight cases of hemoptysis. *Van Mons.*

#### ALUMINÆ SULPHAS.

##### SULPHATE OF ALUMINE.

R. Alum a sufficient quantity  
Dissolve in water, precipitate by aqua ammonia, filter, and dissolve the moist precipitate in dilute sulphuric acid and again filter; evaporate and crystallize.

#### DETERGENT WASH.

R. Sulphate of alumine two drachms  
Water half a pint  
Mix. As a wash to foul ulcers. *Pennypacker.*

Mr. Gannal has found that a solution of this salt, made with about a pound to the quart of water, will preserve a body fresh for a long time, if injected into the blood-vessels; where it is only wished to preserve the body for a month or six weeks, an enema of one quart or an injection of about a quart into the œsophagus is sufficient. *Dunglison, N. R.*

#### ALUMINÆ ET POTASSÆ SULPHAS.

##### ALUM.

Several varieties of alum are known in commerce, all containing more or less sulphate of iron. Most of that used in this country is of domestic manufacture.

Alum is employed both internally and externally as an astringent, in doses of ten grains to a scruple or more.

##### BURNT ALUM.

R. Alum any quantity  
Melt in an iron or earthen vessel over a fire, and continue the heat till it ceases to bubble and becomes dry, then rub it into powder. *U. S. Ph.*

Astringent, and a mild escharotic. It is much used to repress the growth of exuberant granulations or proud flesh.

##### POWDER OF ALUM.

R. Alum one drachm  
Gum Arabic half a drachm  
Triturate, and divide into four powders, one to be taken every three hours in atonic hemorrhagia. *Radius.*

R. Alum a drachm and a half  
Catechu one drachm  
Armenian bole one ounce  
Triturate well. To arrest hemorrhagia. *Van Mons.*

R. Alum four parts  
Kino one part  
Triturate well. Dose, ten to twenty grains, in hemorrhages or diarrhœa. *Landerer.*

R. Alum thirty grains  
Powdered opium three grains  
Mix, and make six powders, one to be taken every four hours. *A. T. Thomson.*

R. Alum one drachm  
Powdered opium four grains  
" cinnamon one scruple  
Mix and triturate, divide into four powders, one to be taken every four hours, in menorrhagia or in diarrhœa. *Radius.*

R. Alum two drachms  
Powdered opium three grains  
" kino one scruple  
Sugar of milk one drachm  
Mix, triturate, and divide into six powders. One to be taken every three hours, in fluxes. *Phœbus.*

##### ESCHAROTIC POWDER OF ALUM.

R. Burnt alum  
Yellow oxide of iron  
Savine, each, equal parts

Triturate well. As an escharotic to venereal excrescences.

*Swedliaur.*

#### ALUM ERRHINE.

R. Alum  
Armenian bole, each, one drachm  
Kino half a drachm  
Red oxide of iron two drachms  
Mix, and triturate. As an errhine in epistaxis.

*Radiu.*

#### GARGLES OF ALUM.

R. Alum  
Nitrate of potassa, each, three ounces  
Cream of tartar four ounces  
Acetic acid four pounds  
Dissolve, evaporate to dryness, and powder the residuum. Half an ounce, dissolved in eight ounces of water, forms a gargle which has been highly praised in inflammation of the fauces and tonsils.

*Wirtem. Ph.*

R. Alum two drachms  
Water four fl. ounces  
Dissolve. Said to be useful where the breath is offensive.

*Cavarra.*

#### ODONTALGIC SOLUTION OF ALUM.

R. Finely powdered alum two drachms  
Spirit of nitric ether seven fl. drachms  
Dissolve. Stated to be an almost infallible cure for toothache.

*Blake.*

#### BOLUSES OF ALUM.

R. Alum  
Extract of Peruvian bark  
Nutmeg, each, half a scruple  
Simple syrup sufficient  
to make a bolus. Prescribed in uterine and other hemorrhages, and repeated as may be required.

*Ellis.*

R. Alum five grains  
Extract of rhatany eighteen grains  
Conserve of rose hips half a drachm  
Astringent syrup sufficient  
to make ten boluses. Dose, one every three or four hours.

*Foy.*

#### ALUM PILLS.

R. Alum six grains  
Opium  
Catechu, each, one grain  
Mix, and form into six pills. One to be given every two to four hours. In passive hemorrhages and atonic mucous discharges.

*Ellis.*

R. Alum two drachms  
Kino  
Honey of roses, each, one drachm

Make pills, of six grains each. Dose, one to six a day, in passive hemorrhages.

*Foy.*

R. Alum  
Extract of Peruvian bark  
Muriate of iron and ammonia  
Aromatic powder, each, a drachm and a half  
Oil of cinnamon twelve drops  
Mix, and make pills of two grains. Dose, four to six, morning and evening, in passive hemorrhages and mucous discharges.

*Augustin.*

#### ASTRINGENT PILLS OF ALUM.

R. Alum  
Catechu equal parts  
Extract of gentian sufficient  
to make pills of two grains each. Dose, four every three hours. Useful in diarrhœa, and especially in leucorrhœa.

*Radiu.*

#### PILLS OF ALUM AND BENZOIN.

R. Alum one scruple  
Benzoic acid five grains  
Gum Arabic  
White sugar, each, ten grains  
Mix, with sufficient water to form thirty-five pills, to be taken in two days. Have been thought useful in phthisis pulmonalis.

*Augustin.*

#### ELECTUARIES OF ALUM.

R. Alum one drachm  
Catechu  
Extract of Peruvian bark, each, two drachms  
Conserve of roses six drachms  
Simple syrup sufficient  
to make an electuary. Dose, one drachm every four hours. In chronic diarrhœa, leucorrhœa, and passive hemorrhages.

*St. Marie.*

R. Alum one drachm  
Extract of logwood half an ounce  
Balsam Peru six drops  
Water of sage sufficient  
Make an electuary. Astringent and antiseptic, recommended in sponginess of the gums.

*Phœbus.*

#### ALUM COLLYRIUM.

R. Alum twelve to twenty grains  
Rose water four fl. ounces  
Dissolve. As an application in chronic ophthalmia.

*Ellis.*

#### ALUM CURD.

R. Powdered alum half a drachm  
White of egg one

Agitate well till a coagulum is formed.  
To be applied on a rag to inflamed eyes.  
To be removed when it becomes warm.

*Ellis.*

#### SOLUTIONS OF ALUM.

R. Burnt alum  
Sulphate of zinc, each, half an ounce  
Distilled water two pints  
Dissolve.

R. Alum one drachm  
Sulphate of zinc half a drachm  
Borax four grains  
Rose water six ounces

Dissolve. Used as an astringent in bruises,  
slight hemorrhages, and mucous discharges.

*Cadet de Gassicourt.*

R. Alum half a drachm  
Armenian bole six drachms  
Vinegar  
Red wine, each, half an ounce

Mix the powdered bole to the solution of  
the alum in the vinegar, and add the wine.  
Used as a local application in epistaxis.

*Swediaur.*

#### GARGLES OF ALUM.

R. Alum one drachm  
Wine one pound  
Tincture of bark four drachms  
myrrh two drachms  
Honey of roses two ounces  
Laudanum one scruple

Mix. As a gargle in scurvy of the gums.

*Foy.*

R. Alum one drachm  
Infusion of red roses  
Barley water, each, three ounces

Add to the solution  
Honey of roses two ounces

*Ratier.*

R. Powdered oak bark one ounce  
Boiling water a pint and a half  
Evaporate to one pint, filter, and add  
Alum half a drachm  
Brandy two fl. ounces

Used as a gargle in inflammation of the  
mouth and throat.

*Augustin.*

#### INJECTIONS OF ALUM.

R. Alum one drachm  
Rose water two ounces

Mix. In chronic gonorrhœa.

*Foy.*

R. Alum  
Sulphate of iron, each, twelve grains  
Honey of roses one ounce  
Barley water five fl. ounces

Mix. In chronic gonorrhœa.

*Radius.*

R. Stramonium half an ounce  
Boiling water two pints  
Infuse for half an hour, strain, and add  
to infusion

Alum two drachms to an ounce  
In cancerous affections of uterus.

*Foy.*

#### ALUM INJECTION.

R. Infusion of flaxseed fifteen fl. ounces  
Alum two drachms  
Tincture of kino one ounce

Mix. As an injection in cauliflower ex-  
crecence of the uterus.

*Clarke.*

#### JULEP OF ALUM.

R. Alum two drachms  
Sulphuric acid ten drops.  
Essence of citron six drops  
Syrup of lemon two ounces  
Water three ounces

Mix. A tablespoonful every hour, in  
lead colic.

*Radius.*

#### ALUM LINIMENT.

R. Alum half an ounce  
Whites of eggs four  
Spirit of camphor two ounces

Mix. As an application to bed sores.

*Augustin.*

#### LOTIONS OF ALUM.

R. Alum  
Sulphate of zinc, each, two drachms  
Plantain water two pints

Mix. As a wash to wounds and bleeding  
ulcers.

*Cadet de Gassicourt.*

R. Alum three drachms  
Muriate of ammonia one drachm  
Liquid hydrosulphuric acid

Rose water half a pint

Mix. As a wash, in obstinate cutaneous  
affections.

*Alibert.*

#### ALUM WHEY.

R. Cow's milk one pint  
Powdered alum a drachm and a-half

Mix, separate the curd, and add to the  
whey

White sugar one ounce

Dissolve. In passive hemorrhages. A  
wineglassful occasionally, to be taken  
cold.

*Foy.*

#### AROMATIC ALUM WHEY.

R. Powdered alum one drachm  
Sugar of milk half a drachm  
Powdered cinnamon fifteen grains  
Cow's milk a pint and a-half

Boil, and strain after coagulation. To be  
taken in cupful doses, cold, in hemor-  
rhagia.

*Niemann.*



## ALUM DRAUGHTS.

R. Alum one to two drachms  
 Syrup of gum two ounces  
 Distilled water four fl. ounces  
 Mix. Dose, a wineglassful every six hours,  
 in lead colic and uterine hemorrhages.  
*Guibourt.*

R. Alum two drachms  
 Wine four ounces  
 Gum tragacanth  
 Catechu, each, a drachm  
 Water eight ounces  
 Mix. One or two spoonfuls every hour  
 in lead colic. *Radiis.*

## ANGLO-SAXON OINTMENT.

R. Red lead  
 Olive oil  
 White wax, each, one pound  
 Powdered amber  
 Burnt alum  
 Camphor, each, two drachms  
 Heat the oil until it becomes of a reddish-brown color, add the red lead and continue the heat; when the mass has the consistence of a plaster, add the amber, and finally, when it cools, the alum and camphor. Highly spoken of as a dressing to foul ulcers. *Niemann.*

## OINTMENT FOR CHILBLAINS.

R. Sweet almonds, blanched, half a pound  
 Honey six ounces  
 Camphor  
 Flour of mustard  
 Burnt alum  
 Olibanum, each, two ounces  
 Yolk of eggs three  
 Triturate well. This paste is to be thinned in a little water, and rubbed on the inflamed parts night and morning, and then washed off in tepid water, and afterward the parts well dried with a linen cloth.  
*Swediaur.*

## RUST'S OINTMENT.

R. Alum a drachm and a-half  
 Camphor  
 Opium, each, a scruple to half a drachm  
 Balsam Peru one drachm  
 Lead ointment half an ounce  
 Triturate well together. Found useful as an application to frosted limbs. *Phabus.*

## PILE OINTMENT.

R. Powdered alum four scruples  
 Simple cerate five ounces and a-half  
 Mix, and triturate well. As an application to painful hemorrhoids. *Taddei.*

## AMMONIA.

## AMMONIA.

This, under ordinary circumstances, exists as a gas, which is readily taken up by water or alcohol. Water absorbs nearly 800 times its volume of the gas at 32° F., and this solution possessing the properties of the gas is usually employed.

## WATER OF AMMONIA.

R. Pulverized muriate of ammonia  
 Quicklime, each, one pound  
 Distilled water one pint  
 Water nine fl. ounces

Break the lime in pieces, pour the water upon it in a proper vessel, cover this and permit it to rest until the lime slacks and is cold. Mix this with the muriate of ammonia in a mortar, and introduce the mixture into a glass retort. Place the retort on a sand-bath, and adapt to it a receiver connected by means of a glass tube with a quart bottle containing the distilled water. Apply heat, and continue as long as ammonia comes over. Remove the fluid in the bottle, and keep in small well-closed bottles. The *liq. ammon. fort.* has a sp. gr. of 0.880, and the usual *liq. ammoniæ* that of 0.960; one fl. ounce of the former with three of water will form the latter.

*U. S. Ph.*

## LINIMENT OF AMMONIA.

R. Water of ammonia half a fl. ounce  
 Olive oil two fl. ounces  
 Mix. Used as a rubefacient, and counter-irritant. *U. S. Ph.*

## COMPOUND LINIMENT OF AMMONIA.

R. Stronger water of ammonia five fl. ounces  
 Spirit of camphor two fl. ounces  
 Spirit of rosemary one fl. ounce  
 Mix well. More powerful than the simple liniments. *Edin. Ph.*

## GRANVILLE'S LOTION.

(*Milder.*)

R. Water of ammonia (.872) four fl. drachms  
 Spirit of rosemary three fl. drachms  
 Spirit of camphor (one  $\frac{3}{4}$  to Oj) one fl. drachm  
 Mix.

(*Stronger.*)

R. Solution of ammonia five fl. drachms  
 Spirit of rosemary two fl. drachms  
 Spirit of camphor one fl. drachm  
 Mix. As a counter irritant. *Gray.*

## GARGLE OF AMMONIA.

R. Water of ammonia (.960) half fl. ounce



To be added to a strained decoction of  
 Mallows  
 Dry figs, each, six drachms  
 Cow's milk sixteen ounces  
 Employed as a resolvent in certain cases  
 of angina. *Pringle.*

## INJECTION OF AMMONIA.

R. Water of ammonia one scruple  
 Cow's milk one ounce  
 Mix. An emmenagogue this injection  
 is to be used three times a-day. It induces  
 a mucous flow, often followed by the ap-  
 pearance of the catamenia. It must be  
 used with great caution, and made less  
 stimulating at first. *Lavagna.*

## MIXTURE OF AMMONIA.

R. Water of ammonia  
 Carbonate of potassa,  
 each, two drachms  
 Cinnamon water four ounces  
 Mix. A spoonful every two or three hours,  
 in cardialgia and acidity of the stomach.  
*Jourdan.*

## MIXTURE OF AMMONIA AND ETHER.

R. Water of ammonia  
 Sulphuric ether, each, two drachms  
 Peppermint water four ounces  
 Syrup of cinnamon one ounce  
 Mix. A spoonful every hour. Said to be  
 very useful in bites of venomous snakes.  
*Radius.*

## AMMONIACAL SINAPISM.

R. Flour of mustard one ounce and a-half  
 Rye flour half an ounce  
 Water of ammonia sufficient  
 To form a cataplasm.  
 This is more active than the simple mus-  
 tard poultice. *Phæbus.*

## LOTION OF AMMONIA.

R. Water of ammonia  
 Spirit of thyme  
 Spirit of camphor equal parts  
 Mix. As a lotion to the forehead, or ap-  
 plied to the temples, in compresses, in sick-  
 headache. *Swediaur.*

## FETID SPIRIT OF AMMONIA.

R. Ammoniated alcohol two pints  
 Assafetida two ounces  
 Macerate for twelve hours. Then, by a  
 gentle heat, distil off a pint and a-half into  
 a cooled receiver. *Lond. Ph.*

Employed as a stimulant and antispasmodic,  
 in doses of half a drachm to a drachm.

## STEER'S OPODELDOC.

R. Alcohol eight pints

Soap twenty ounces  
 Water of ammonia four fl. ounces  
 Camphor eight ounces  
 Oil of rosemary  
 of monarda, each, one fl. ounce  
 Dissolve the soap in the alcohol with a  
 gentle heat, add the other articles, suffer  
 the impurities to subside, and pour into  
 vials whilst warm. *Phil. Coll. Pharm.*

## LIQUID OPODELDOC.

R. Dry Spanish soap sixty parts  
 Camphor fifteen parts  
 Alcohol five hundred parts  
 Oil of thyme four parts  
 of rosemary three parts  
 Solution of ammonia thirty parts  
 Mix, dissolve, and filter. *Giske.*

## PLASTER OF AMMONIA.

R. Strong water of ammonia one ounce  
 Camphor two ounces  
 Opium fifteen grains  
 Ammoniac  
 Saffron  
 Gum plaster  
 Galbanum plaster, each, half an ounce  
 Mix well. For corns. A thick layer of  
 this plaster is to be spread on a piece of  
 linen or kid-skin, of the exact size of the  
 corn, as it will blister the sound skin.  
*La Foret.*

## SULPHURETTED AMMONIACAL LINIMENT.

R. Water of ammonia one ounce  
 Camphor half a drachm  
 Sulphuret of potassium four drachms  
 Olive oil six ounces  
 Mix. Recommended as an application in  
 tenia capitis. *Bories.*

TEREBINTHINATE AMMONIACAL LINI-  
MENT.

R. Oil of chamomile  
 of henbane  
 Essence of turpentine,  
 each, two fl. ounces  
 Water of ammonia  
 Tincture of capsicum, each, one ounce  
 Camphor half an ounce  
 Mix well. A very stimulating liniment,  
 found beneficial in asthenic gout and chro-  
 nic rheumatism. *Ammon.*

## AMMONIÆ ACETAS.

## ACETATE OF AMMONIA.

## SOLUTION OF ACETATE OF AMMONIA.

R. Diluted acetic acid one pint

## Carbonate of ammonia

a sufficient quantity

Add the carbonate gradually to the acid, stirring constantly until all effervescence ceases.

*U. S. Ph.*

A valuable diaphoretic in febrile and inflammatory diseases, when aided by warmth, otherwise acts as a diuretic. Dose, half a fl. ounce to a fl. ounce every three or four hours. It is also a good refrigerant lotion. It is known as the *spirit of mindererus*.

## CATAPLASM WITH ACETATE OF AMMONIA.

R. Extract of hemlock one ounce  
of henbane half an ounce  
Powder of belladonna one drachm  
Solution of acetate of ammonia sufficient  
to form a cataplasm. Has been found useful in ulcerated cancerous sores.

*Radiis.*

## COLLYRIUM OF ACETATE OF AMMONIA.

R. Solution of acetate of ammonia  
Rose water equal parts  
In chronic ophthalmia. *Saunders.*

## GARGLE OF ACETATE OF AMMONIA.

R. Solution of acetate of ammonia  
Honey of roses, each, one ounce  
Elder water eight ounces  
Mix. Recommended by Wendt in scarlatina anginose with ulcerations. *Phæbus.*

## MIXTURE OF ACETATE OF AMMONIA.

R. Solution of acetate of ammonia two fl. ounces  
Cinnamon water one fl. ounce  
Antimonial wine one fl. drachm  
Distilled water two fl. ounces  
Mix. A tablespoonful every two or three hours. *Ellis.*

R. Camphor mixture  
Solution of acetate of ammonia, each, half a fl. ounce  
Antimonial wine  
Laudanum, each, twenty drops  
Mix. To be taken at bedtime, or oftener, in which latter case the laudanum to be diminished. *Ellis.*

R. Liquid acetate of ammonia half fl. ounce  
Camphor mixture seven fl. drachms  
Antimonial wine fifteen drops  
Syrup of saffron half a fl. drachm  
Mix. To be taken three times a-day. *Burke.*

## AMMONIÆ ARSENIAS.

## ARSENATE OF AMMONIA.

R. Arsenic acid one ounce  
Strong water of ammonia sufficient  
to saturate the acid. To be left to evaporate and crystallize spontaneously. *Cottureau.*

## SOLUTION OF ARSENATE OF AMMONIA.

R. Arsenate of ammonia eight grains  
Water eight ounces  
Angelica water four drachms  
Mix. Has been recommended, in doses of twenty to thirty drops, in obstinate cutaneous affections. *Soubeyran.*

## AMMONIÆ CARBONAS.

## CARBONATE OF AMMONIA.

R. Muriate of ammonia one pound  
Dried carbonate of lime one pound and a-half  
Pulverize them separately, then mix them thoroughly, and sublime into a cooled receiver. *U. S. Ph.*

## AROMATIC CARBONATE OF AMMONIA.

R. Carbonate of ammonia one pound  
Oil of lavender three ounces  
verbena half an ounce  
Grind together, and sublime with a gentle heat.

R. Muriate of ammonia one drachm  
Caustic potassa three drachms  
Grind together, and add  
Oil of lemons fifteen drops  
*Cooley.*

R. Carbonate of ammonia half an ounce.  
Oil of peppermint  
cajeput, each, twelve drops  
Mix, and keep in closed bottle. *Phæbus.*

R. Powd. carb. ammon. one ounce  
Stronger sol. of ammon. half a fl. ounce  
Oil of rosemary  
Oil of bergamot, each, ten drops  
Mix, and while moist, put in a wide-mouth bottle, which is to be well closed.

All these are used as smelling salts in faintness, &c.

## POTION OF CARBONATE OF AMMONIA.

R. Carbonate of ammonia ten grains  
Cinnamon water one ounce  
Tincture of allspice half a drachm  
Syrup of saffron half an ounce  
Mix. To be taken before going to bed. *Phæbus.*

R. Comp. tinct. of  
 ammonia two fl. drachms and a-half  
 Camphor water seven fl. ounces  
 Tincture of castor one fl. drachm  
 Simple syrup three fl. drachms  
 Mix. Two spoonfuls in an hysteric attack.  
*Ainslie.*

## PILLS OF CARBONATE OF AMMONIA.

R. Carbonate of ammonia  
 Powdered capsicum  
 cloves  
 mace, each, one scruple  
 Oil of caraway five drops  
 Extract of gentian twelve grains  
 Simple syrup sufficient  
 to form twenty pills. One every two  
 hours in gout in the stomach. *Parrish.*

## MIXTURE OF CARBONATE OF AMMONIA.

R. Carbonate of ammonia  
 Powdered white sugar  
 gum Arabic, each, a drachm  
 and a-half  
 Compound spirits of  
 lavender two fl. drachms  
 Mint water four fl. ounces  
 Mix. A tablespoonful every two or three  
 hours. If required, forty to fifty drops of  
 laudanum may be added to the mixture.  
*Ellis.*

Useful in low states of the system.

## DRAUGHT WITH CARBONATE OF AMMONIA.

R. Valerian one scruple  
 Carbonate of ammonia ten grains  
 Cinnamon water two fl. ounces  
 Mix. To be taken every four hours, in  
 depression of the spirits and nervous head-  
 ache. *Ellis.*

MIXTURE OF CARBONATE OF AMMONIA  
AND GINGER.

R. Powdered ginger fifteen grains  
 Carbonate of ammonia eight grains  
 Spirit of cinnamon two fl. drachms  
 Water one and a-half fl. ounces  
 Mix. To be taken in gout or cramp in  
 the stomach. *Ellis.*

## DROPS OF CARBONATE OF AMMONIA.

R. Carbonate of ammonia twenty parts  
 Oil of lavender one part  
 Alcohol four parts  
 Distil. Dose, thirty or forty drops in  
 nervous headache. *Cottrecau.*

## OINTMENT OF CARBONATE OF AMMONIA.

R. Carbonate of ammonia one part  
 Simple cerate eight parts

Mix. Used in frictions to the throat in  
 croup. *Foy.*

## PLASTER OF CARBONATE OF AMMONIA.

R. Carbonate of ammonia  
 Opium, each, fifteen grains.  
 Camphor half a drachm  
 Oil of cajeput twenty drops  
 Galbanum plaster half an ounce

Mix. Said to be useful as an application  
 to the pit of the stomach to arrest vomit-  
 ing in sea-sickness. *Phabus.*

## CAMPHORATED AMMONIACAL LINIMENT.

R. Liquid carbonate of ammonia four parts  
 Oil of olives sixteen parts  
 Spirit of camphor three parts  
 Mix. As a revulsive embrocation.  
*Swediaur.*

## AMMONIACAL OINTMENT.

R. Carbonate of ammonia one drachm  
 Rose ointment one ounce  
 Oil of jasmine four drops  
 Mix. Recommended as a friction, three  
 or four times a-day, in engorgements of  
 the mammæ. *Augustin.*

## GONDRET'S AMMONIACAL OINTMENT.

R. Suet  
 Hog's lard, each, one part  
 Strong water of ammonia two parts  
 Melt the fats and incorporate the ammo-  
 nia. *Soubeiran.*

R. Hog's lard seven drachms  
 Oil of almonds a drachm and a-half  
 Strong water of ammonia five  
 drachms

Melt the lard, mix it with the oil, pour  
 into a wide-mouthed bottle with a glass  
 stopper, add the ammonia, agitate well.  
 Keep in a cool place.

Rubbed on the skin it causes rubefaction, and,  
 if covered with a compress, speedily vesicates.  
 A useful rubefacient and counter-irritant.

*Gondret.*

## COMPOUND TINCTURE OF AMMONIA.

R. Mastic two drachms  
 Alcohol nine fl. drachms  
 Oil of lavender fourteen drops  
 Oil of amber four drops  
 Strong water of ammonia one pint  
 Dissolve the mastic in the alcohol, and fil-  
 ter; add the other ingredients, and agitate  
 them well.

Well known under the name of *eau de luce* as  
 a remedy in bites of venomous reptiles. It is a  
 good antispasmodic, in doses of from ten to forty  
 drops; and also forms a stimulating embroca-  
 tion. *London. Ph.*



## AMMONIATED ALCOHOL.

- R. Alcohol twenty fl. ounces  
 Quicklime one pound  
 Muriate of ammonia one pound  
 Water nine fl. ounces  
 Prepare as directed for water of ammonia.  
*U. S. Ph.*

## AROMATIC AMMONIATED ALCOHOL.

- R. Ammoniated alcohol one pint  
 Oil of rosemary  
 lemons, each, two fl. drachms  
 cloves  
 cinnamon, each, half a  
 fl. drachm

Mix the oils, add the ammoniated alcohol, and pour in as much water as will prevent empyreuma in distilling; distil a pint with a gentle heat. *U. S. Ph., 1830.*

## MIXTURE OF AMMONIATED ALCOHOL.

- R. Ammoniated alcohol half an ounce  
 Oil of amber one drop  
 mace two drops  
 aniseed  
 cloves  
 cinnamon, each, three drops

Mix. Dose, ten to thirty drops in sweetened gum water, in anorexia and flatus.

*Ammon.*

## ANISATED AMMONIATED ALCOHOL.

- R. Alcohol twenty-four parts  
 Oil of aniseed one part  
 Dissolve, and gradually add, constantly stirring  
 Ammoniated alcohol six parts  
 Keep in well-closed bottles. *Jourdan.*

## LOTION IN HICCUGH.

- R. Anisated ammoniated alcohol one drachm  
 Spirits of lavender two ounces

Recommended by Siebold to be rubbed on the thorax and abdomen of infants to check hiccough. *Radius.*

## MIXTURE OF ANISATED AMMONIATED ALCOHOL.

- R. Extract of liquorice one drachm  
 Barley water three ounces and a-half  
 Anisated ammoniated alcohol half a  
 drachm  
 Simple syrup half an ounce  
 Mix. A teaspoonful occasionally in chronic catarrh. *Hufeland.*

- R. Anisated ammoniated alcohol one drachm  
 Syrup of mallows one ounce  
 Extract of henbane one scruple  
 Mix well. A desertspoonful, three times

a day, in chronic bronchitis, or in the second stages of whooping-cough. *Radius.*

## VICAT'S ANODYNE MIXTURE.

- R. Ammoniated alcohol half an ounce  
 Diluted alcohol one ounce  
 Opium two scruples  
 Camphor one scruple

Digest for three days, often stirring, and filter. Used on cotton to fill the cavity of carious teeth, and as a lotion to the temples in headache. *Spielman.*

## AMMONIÆ CITRAS.

## CITRATE OF AMMONIA.

- R. Fresh lemon juice one fl. ounce  
 Carbonate of ammonia sufficient  
 to saturate

- White sugar one drachm  
 Distilled water four fl. ounces

Mix.

A pleasant saline diaphoretic in febrile disorders, resembling the solution of the acetate of ammonia in its effects. Dose, a tablespoonful, as may be required. *Ellis.*

## AMMONIA HYDRIODAS.

## HYDRIODATE OF AMMONIA.

- R. Iodine one hundred parts  
 Iron filings thirty parts  
 Water five hundred parts

Mix, and heat till the liquid becomes almost colorless; filter, and add carbonate of ammonia, as long as any precipitate takes place; filter, evaporate to dryness, redissolve in four or five times its weight of water; filter, evaporate, and crystallize.

*Beasley.*

## OINTMENT OF HYDRIODATE OF AMMONIA.

- R. Hydriodate of ammonia one scruple  
 Lard one ounce  
 Mix. *Beasley.*

- R. Hydriodate of ammonia one drachm  
 Lard one ounce  
 Mix. *Gibert.*

As an application to scrofulous tumors and cutaneous affections.

## AMMONIÆ HYDROSULPHAS.

## HYDROSULPHATE OF AMMONIA.

- R. Water of ammonia four fl. ounces  
 Pass hydrosulphuric acid (obtained from the sulphuret of iron and sulphuric acid



diluted with four times its weight of water) through the water of ammonia in a suitable apparatus, to perfect saturation. To be kept in a well-stopped bottle.

*U. S. Ph.*

A powerful sedative, lessening the action of the circulatory system to a great degree, and causing nausea, vomiting, vertigo, &c.

Used in diabetes to check the morbid appetite, by Cruickshank, Rollo, and others. Dose, five or six drops, in a tumbler full of water, three or four times a-day, gradually increasing the dose until some vertigo is induced.

SULPHURETTED HYDROSULPHATE OF AMMONIA.

R. Quicklime

Sulphur, each, three parts  
 Triturate together, adding water sufficient to form a paste, and incorporate

Sulphate of ammonia seven parts  
 dissolved in water, let stand, decant, wash the residuum, rubbing it with a small portion of water, unite the solutions, and filter.

*Van Mons.*

Known as Boyle's fuming liquor, and recommended in venereal complaints, in phthisis, rheumatism, and gout, in doses of three to four drops in water, augmenting the dose until vertigo ensues.

WILKINSON'S LINIMENT.

R. Boyle's fuming liquor ten grains  
 Chalk one scruple  
 Flowers of sulphur  
 Lard

Tar, each, half an ounce  
 Mix well. Advised in chronic diseases of the skin. To be rubbed on a certain extent of the surface at a time.

*Phæbus.*

SULPHURETTED SYRUP.

R. Boyle's fuming liquor three drachms  
 Sulphuret of antimony  
 and soda one drachm

Simple syrup an ounce and a-half  
 Mix. Has been prescribed in croup, in the dose of a teaspoonful every hour.

*Swediaur.*

AMMONIÆ MURIAS.

SAL AMMONIAC.

POWDER OF SAL AMMONIAC.

R. Sal ammoniac two drachms  
 Camphor six grains  
 Arnica half a drachm  
 White sugar six drachms

Mix. Dose, a teaspoonful, three or four times a day. Said to be efficacious as an emmenagogue, and also in smaller doses in chronic catarrh.

*Radiis.*

BOLUS OF SAL AMMONIAC.

R. Sal ammoniac

Extract of liquorice, each, one scruple  
 Extract of taraxacum sufficient  
 to form a bolus. One to be taken every three or four hours, in schirrus of the prostate, bladder, or rectum.

*Radiis.*

LOTIONS OF SAL AMMONIAC.

R. Sal ammoniac two scruples  
 Vinegar one ounce  
 Water one pint

Mix. *Augustin.*

R. Sal Ammoniac one ounce

Vinegar  
 Alcohol, each, four ounces

Mix. In strains, bruises, and external inflammation.

*Foy.*

FOMENTATION OF SAL AMMONIAC.

R. Bistort  
 Pomegranate, each, two ounces  
 Red wine one pound

Heat, digest for an hour, strain, and add

Sal ammoniac two drachms  
 Useful as a fomentation, in strains and bruises.

*Foy.*

R. Sal ammoniac one ounce  
 Spirit of rosemary one pound

Mix. Said to be useful in engorgement of the mammae. The breast to be covered with cloths dipped in the fluid.

*Foy.*

LINIMENT WITH SAL AMMONIAC.

R. Sal ammoniac one ounce  
 Camphor half an ounce  
 White soap six drachms  
 Alcohol two pounds

Digest, and filter. Useful as an application to contusions.

*Niemann.*

COLLUTORIUM OF SAL AMMONIAC.

R. Pyrethrum two drachms  
 Lavender water  
 Vinegar, each, two ounces  
 Opium two grains

Sal ammoniac one drachm  
 Macerate for a few days, and filter.

*Cadet de Gassicourt.*

DRAUGHT OF SAL AMMONIAC.

R. Sal ammoniac five grains  
 Camphor three grains  
 Gum Arabic one drachm  
 Parsley water four ounces

Mix. To be taken every two hours in paralytic retention of urine.

*Radiis.*

CATAPLASM WITH SAL AMMONIAC.

R. Sal ammoniac  
 Henbane, each, half an ounce

Linseed meal      an ounce and a-half  
Boiling water      'sufficient  
to make a cataplasm. Advised in an engorgement of milk in the breasts.

*Radius*

#### WASH OF SAL AMMONIAC.

R. Bran      an ounce and a-half  
Mallow leaves      six drachms  
Water      sufficient  
to make sixteen ounces of solution. Boil, strain, and add to decoction  
Sal ammoniac      two drachms  
Tincture of benzoin      half an ounce  
*Radius.*

#### EMULSION OF SAL AMMONIAC.

R. Sweet almonds      one ounce  
Orange-flower water      two ounces  
Rose water      eight ounces  
Sal ammoniac      one drachm  
Tincture of benzoin      two drachms  
Rub down the almonds previously blanched, with the rose water, and add the other articles.  
*Phæbus.*

### AMMONIÆ NITRAS.

#### NITRATE OF AMMONIA.

R. Diluted nitric acid      at will  
Carbonate of ammonia      sufficient  
to saturate.

Evaporate by a gentle heat, till a pellicle forms; set aside to crystallize. *Pereira.*

Soluble in two parts of cold water. In doses of one to two scruples, it reduces the frequency of the pulse and heat of skin, and also acts as a diuretic.

#### MIXTURE OF NITRATE OF AMMONIA.

R. Carbonate of ammonia      one scruple  
Nitric acid      sufficient  
to saturate; add  
Syrup of mallows      one ounce  
Distilled water      two ounces  
Dose, a desertspoonful, every two hours.  
*Radius.*

### AMMONIÆ PHOSPHAS.

#### PHOSPHATE OF AMMONIA.

R. Phosphoric acid      at will  
Saturate with  
Carbonate of ammonia  
and set by to crystallize. *Niemann.*

Diuretic and discutient. Recommended by Dr. Buckler, of Baltimore, in gout and rheumatism, as a solvent of uric acid calculus, and in diseases dependent on a lithic acid diathesis. Dose, twenty to thirty drops of the saturated solution, three times a-day.

R. Powdered calcined bone      ten pounds  
Sulphuric acid      six pounds  
Mix in a stoneware vessel, adding one gallon of water, digest for three or four days, frequently stirring, add a gallon of boiling water, strain, adding more boiling water, till it passes almost tasteless. Concentrate to one gallon, saturate with carbonate of ammonia, filter, concentrate by gentle heat, not above 100° F., and let crystallize. After removing each crop of crystals, add more ammonia, and concentrate. *C. Ellis.*

#### SOLUTION OF PHOSPHATE OF AMMONIA.

R. Phosphate of ammonia      half an ounce  
Water      six fl. ounces  
Dissolve. Dose, a tablespoonful three times a-day. *C. Ellis.*

### AMMONIÆ SUCCINAS.

#### SUCCINATE OF AMMONIA.

R. Succinic acid      one part  
Water      four parts  
Put in a capsule, and add sufficient water of ammonia, till perfectly saturated, with a slight excess of alkali, filter, evaporate, and crystallize. *Guibourt.*

#### IMPURE SUCCINATE OF AMMONIA.

R. Spirits of hartshorn      at will  
Saturate with a solution of succinic acid, filter, evaporate, and crystallize. *Bavan Ph.*

#### SPIRIT OF SUCCINATE OF AMMONIA.

R. Spirit of hartshorn      two fl. ounces  
Sal ammoniac      four ounces  
Carbonate of potassa      twelve ounces  
Powdered amber      six ounces  
Oil of lemons      two fl. drachms  
Mix the sal ammoniac, oil, and amber, add the carbonate of potassa to three pints of alcohol, mixed with a pint of water, and distil on a sand-bath. Dose, thirty to fifty drops, as an antispasmodic. *Niemann.*

#### MIXTURE OF SUCCINATE OF AMMONIA.

R. Liquid succinate of ammonia  
Elixir of liquorice, each,      two parts  
Wine of opium  
Antimonial wine, each,      one part  
Mix. Useful in hooping-cough, in doses of ten to forty drops, every two hours. *Augustin.*

#### SPIRIT OF AMMONIA AND SUCCINIC ACID.

R. Succinic acid      one part  
Hot water      eight parts  
Saturate the solution with carbonate of

ammonia, and filter. Antispasmodic, sudorific.

*Van Mons.*

#### AMMON. SUCCINIC ACID, AND ETHER.

R. Ammon. succinic acid

Sulphuric ether equal parts

Mix. Much praised in gout and rheumatism. Dose, twenty to forty drops in sugar and water, two or three times a-day.

*St. Marie.*

#### MIXTURE OF SUCCINATE OF AMMONIA.

R. Liquid succinate of ammonia five fl. drachms

Tincture of castor

Anisated ammon.

alcohol, each, three fl. drachms

Tincture of mace two fl. drachms

nutmeg one fl. drachm

Mix. Fifteen to twenty-five drops, three or four times a-day, in hysteria. *Augustin.*

#### LINIMENT OF SUCCINATE OF AMMONIA.

R. Liquid succinate of ammonia one fl. ounce

Camphorated oil two fl. ounces

Mix. As a liniment to the neck in angina.

*St. Marie.*

R. Camphor two scruples

Oil of turpentine two drachms

Dissolve, and add

Soft-soap one ounce

Oilment of bayberries two drachms

Succinate of ammonia fifteen grains

Mix. As a friction in chronic rheumatism, especially sciatica. *Cadet.*

### AMMONIÆ SULPHAS.

#### SULPHATE OF AMMONIA.

R. Diluted sulphuric acid at will

Carbonate of ammonia sufficient to saturate; filter, and crystallize.

*Soubeiran.*

Laxative and stimulant. Dose, from a scruple to half a drachm.

### AMMONIACUM.

#### GUM AMMONIAC.

This gum-resin is found in the shops, either in whitish or yellowish tears, or in yellowish or brownish masses. It has an unpleasant odor, and a nauseous and somewhat bitter taste. Is the product of *Ferula tingitana*, Linn.; and of *Dorema ammoniacum*, Don.

Pereira, Mat. Med. ii. 489. Griffith, Med. Bot. 325, 331.

Its effects on the system are somewhat like those of assafetida, and appear to be most

marked on the bronchial mucous membrane. It also is considered to be emmenagogue. The dose is from six to twelve grains. It is employed externally as a resolvent.

#### AMMONIAC PILLS.

R. Ammoniac one drachm

Syrup of gum sufficient

to make thirty-six pills. *Soubeiran.*

R. Ammoniac

Myrrh, each, two drachms

Extract of horehound one drachm

liquorice three drachms

Mix. Make two grain pills. Dose, four

to ten every three hours. *Augustin.*

R. Ammoniac one ounce

Sagapenum two ounces

Elixir proprietatis sufficient

to make four grain pills. As a remedy in

obstructed menstruation. *Bories.*

R. Ammoniac two drachms

Soap one drachm

Oil of juniper twenty drops

Mix, and form pills of two grains.

*Augustin.*

#### KLEIN'S PILLS.

R. Ammoniac

Extract of centaury, each, half an ounce

Soap one ounce

Oil of amber ten drops

Triturate, and make pills of two grains.

*Spielmann.*

#### PILLS OF AMMONIAC AND RHUBARB.

R. Ammoniac

Soap

Rhubarb, each, two drachms

Triturate, and make three grain pills.

Dose, ten, three to four times a-day.

*Tissot.*

#### COMPOUND AMMONIAC PILL.

R. Ammoniac one drachm

Blue pill fifteen grains

Powdered squill six grains

Simple syrup sufficient

Mix, and make sixteen pills. One, three

times a-day, in asthmatic cough with hepatic derangement.

*Ainslie.*

#### DE HAEN'S PILLS.

R. Ammoniac

Pill. aloes and myrrh, each, one drachm

Soap

Extract of conium, each, a drachm

and a-half

Triturate, and form into three grain pills.

Dose, four a day, in chlorosis and amenorrhœa.

*St. Marie.*

#### AMMONIAC MIXTURE.

R. Ammoniac two drachms



Water half a pint  
 Rub the ammoniac with the water gradually added, until they are thoroughly mixed.  
*U. S. Ph.*

The dose is from one to two tablepoonsfuls.

#### COMPOUND AMMONIAC MIXTURE.

R. Ammoniac one drachm  
 Distilled water four fl. ounces

Make a mixture, and add  
 Oxymel of squills two fl. ounces  
 Paregoric elixir half a fl. ounce

Mix. A teaspoonful every two hours, as a stimulating expectorant. *Ellis.*

R. Ammoniac mixture five fl. ounces  
 Oxymel of squill half fl. ounce  
 Antimonial wine twenty-six minims  
 Distilled vinegar three fl. drachms

Mix. A tablespoonful occasionally in cough, or humoral asthma. *Ainslie.*

R. Ammoniac  
 Assafetida  
 Soap  
 Powdered valerian  
 Flowers of amica, each, two drachms  
 Tartar emetic eighteen grains

Mix, and make two grain pills. In doses of twenty or thirty, three times a-day. In amaurosis, arising from abdominal affections. *Richter.*

#### AMMONIAC AND NITRIC ACID MIXTURE.

R. Ammoniac two and a-half scruples  
 Nitric acid two fl. drachms  
 Water eight fl. ounces

Add the acid to the water, then gradually rub the gum with the acid compound, in a composition mortar.

A teaspoonful, two or three times a day. It is highly beneficial in chronic catarrh, especially in that of elderly persons. *Ellis.*

#### MIXTURES OF AMMONIAC.

R. Ammoniac mixture three fl. ounces  
 Tincture of castor half a fl. drachm  
 Syrup of tolu half a fl. ounce  
 Laudanum twenty to thirty drops  
 Cinnamon water one fl. ounce

Mix. A desertspoonful every three or four hours in troublesome cough. *Meigs.*

R. Gum ammoniac  
 Arabic, each, half an ounce  
 Infusion of hyssop six ounces  
 Syrup of capillaire two ounces

Rub the gums with the infusion until a solution is formed.

In tablespoonful doses occasionally in catarrhs. *Radius.*

R. Ammoniac mixture four ounces

Wine of ammoniac  
 Paregoric elixir, each, half an ounce  
 Syrup of tolu one ounce  
 Mix. In teaspoonful doses occasionally as an expectorant.

#### AMMONIAC PLASTER.

R. Ammoniac five ounces  
 Vinegar half a pint

Dissolve the ammonia in the vinegar and strain, evaporate in an iron vessel on a sand-bath to a proper consistence.

*U. S. Ph.*

Useful as an application to indolent and scrofulous tumors to promote suppuration.

#### PLASTER OF AMMONIAC WITH MERCURY.

R. Ammoniac one pound  
 Purified mercury three ounces  
 Olive oil one fl. ounce  
 Sulphur eight grains

To the heated oil, add the sulphur gradually, stirring constantly, then rub the mercury with the compound, until the globules disappear; lastly, add the ammoniac previously melted, and with a gentle heat rub them well together. *Edin. Ph.*

More active than the simple ammoniac plaster. Used as a discutient to tumid glands and other indolent swellings, especially syphilitic. Sometimes salivates.

#### GUM PLASTER.

R. Litharge plaster four ounces  
 Ammoniac  
 Galbanum

Beeswax, each, half an ounce  
 Melt the gum resins together and strain, melt also the plaster and wax; add the two mixtures together and thoroughly incorporate. *Edin. Ph.*

A good digestive and suppurative for indolent tumors.

#### AMMONIAC PLASTER WITH HEMLOCK.

R. Strained ammoniac three ounces  
 Extract of hemlock two drachms

Melt, and add  
 Solution subacetate of lead one drachm  
 Stir till cold. *Ph. Chem.*

### AMYGDALA.

#### ALMONDS.

#### AMYGDALA AMARA.

#### BITTER ALMONDS.

#### AMYGDALA DULCIS.

#### SWEET ALMONDS.

The almond-tree, *Amygdalus communis*, is about the size and much resembles the peach-tree in



appearance. It is a native of Persia and Syria, and is extensively cultivated in the southern parts of Europe. There are several varieties, the most important of which are the sweet and the bitter: the former having a sweet, bland kernel; and the latter, one that has the bitter taste of the peach kernel.

*Sex. Syst.* Icosand. monog. *Nat. Syst.* Amygdalaceæ.

*Linn. Sp. Pl.* 677. *Griffith, Med. Bot.* 284.

Sweet almonds act as a demulcent; but the bitter have some of the properties of hydrocyanic acid.

#### BUTTER OF ALMONDS.

R. Blanched almonds           ten drachms  
White sugar                   twelve drachms  
Orange-flower water       two drachms  
Triturate till reduced to a homogeneous paste. *Guibourt.*

A spoonful, stirred in a tumbler of water, forms an extemporaneous syrup of orgeat, which latter preparation is difficult to preserve.

#### ALMOND PASTE.

R. Blanched almonds       eight ounces  
Oil of almonds  
Lemon juice, each, a sufficient quantity  
Diluted alcohol           five ounces  
Form a paste. *Taddei.*

R. Blanched almonds  
Rice flower, each,       eight ounces  
Bean flower           sixteen ounces  
Myrrh                   two ounces  
Camphor               one ounce and a-half  
White soap           twenty ounces  
Form a paste. *Spielmann.*

Used as a cosmetic.

#### ALMOND POWDER.

R. Blanched almonds       two pounds  
Rice flower  
Orris root, each,       four ounces  
Gum benzoin  
Carbonate of potassa  
Spermæti, each,       one ounce  
Oil of rhodium  
lavender  
cloves, each,       thirty drops  
Form a powder. Used as a cosmetic.

#### ALMOND EMULSIONS.

R. Blanched almonds       one ounce  
Pound in a marble mortar, and gradually add  
Water                   sixteen ounces  
Strain. *Beral.*

R. Blanched almonds       two ounces  
White sugar           half an ounce  
Pound in a marble mortar, and add  
Boiling water       twelve fl. ounces  
Strain, and add  
Orange-flower water   two drachms

#### ALMOND CONFECTION.

R. Blanched almonds       one ounce  
Powdered gum Arabic   one drachm  
sugar                   half an ounce  
Pound well in a marble mortar till thoroughly mixed. *U. S. Ph.*

#### COMPOUND ALMOND LOTION.

R. Sweet almonds       one ounce  
Bitter “               four drachms  
Form an emulsion with  
Cherry brandy       ten fl. ounces  
Add

Corrosive sublimate   six grains  
Tincture of benzoin   six drachms  
Lemon juice           four drachms  
Mix. As a lotion for pustular eruptions on the face. The mixture should be shaken before it is used. *Siemerling.*

#### SYRUP OF ORGEAT.

R. Sweet almonds       one pound  
Bitter “               five ounces  
White sugar           six pounds  
Orange-flower water   eight ounces  
Water                   three pints.

Blanch the almonds, beat them into a paste with some of the water and the sugar, mix this paste with the rest of the water, press, and strain; dissolve the remainder of the sugar in the emulsion by means of a water-bath, add the orange flower-water, and strain. *Paris Cod.*

#### ARTIFICIAL MILK.

R. Blanched almonds       No. 2  
Make an emulsion with  
Boiling water           four ounces  
Cow's milk           six ounces  
White sugar           one drachm  
Strain. As a substitute for breast milk for infants. *Rosenstein.*

#### ANODYNE MILK.

R. Blanched almonds       four ounces  
Melon seeds  
Squash seed, each,   one ounce  
Lettuce seeds  
Poppy seeds, each,   one drachm  
Triturate well, adding gradually  
Barley water           sufficient  
Strain and express, to be taken in glassful doses, to which are to be added two drachms of sugar. *Pierquin.*

#### MILK OF ROSES.

R. Almonds               one ounce  
Rose water           five ounces  
Alcohol               one ounce  
Soap                   half a drachm  
Attar of roses       two drops

Blanch the almonds, dry them well with a cloth, beat them to a paste, add the soap, triturate well, then add the rose water and alcohol, rub well together, and strain through fine linen. This keeps well.

*Bateman.*

R. Blanched almonds      eight ounces  
 Rose water      three pints  
 Windsor soap  
 White wax  
 Oil of almonds, each,      half an ounce  
 Rectified spirit      twelve ounces  
 Oil of bergamot      half an ounce  
     lavender      one drachm  
 Attar of roses      half a drachm

Beat the almonds with the rose water, so as to form an emulsion; melt the soap, wax, and almond oil together by a gentle heat, and rub the mixture with the emulsion, strain; dissolve the essential oils in the spirit, and mix with the strained emulsion.

*Goulard's*  
 GOULARD'S LOTION.

R. Emulsion of bitter  
     almonds      two hundred parts  
 Corrosive sublimate  
 Sal ammoniac, each,      one part  
     *Foy.*

#### ALMOND CREAM.

R. Marrow pomatum  
 Almond oil, each,      two ounces  
 Melt by a gentle heat, and add  
 Oil of jasmine      two drachms  
 stirring till cold. As an application to the hair.

*Bateman.*

#### OIL OF ALMONDS.

The kernels of almonds are to be rubbed and shaken in a bag to remove the reddish dust that adheres to them, then ground in a mill or pounded in a stone mortar. The marc is to be subjected to pressure in a linen bag and the oil filtered.

#### COLD CREAM.

R. Rose water  
 Oil of almonds, each,      two fl. ounces  
 Spermaceti      half an ounce  
 White wax      one drachm  
 Melt together the oil, spermaceti, and wax, by means of a water-bath, add the rose water, and stir constantly until the mixture is cold.

*U. S. Ph.*

#### ALMOND EMULSION.

R. Almond confection      one ounce  
 Water      half a pint  
 Rub the confection with the water gradually added; when thoroughly mixed, strain.

*U. S. Ph.*

A good demulcent, in irritation or inflammation of mucous membranes, and may be freely used.

#### AROMATIC ALMOND EMULSION.

R. Blanched almonds  
 Simple syrup  
 Orange-flower water, each,      one ounce  
 Water      fourteen ounces  
 Rub down the almonds with a little of the water, incorporate the paste with the remainder of the fluid, and strain.

*Beral.*

#### GREEN LINCTUS.

R. Pistachio nuts      No. 14  
 Syrup of violets      one ounce  
 Oil of almonds      half an ounce  
 Gum tragacanth      sixteen grains  
 Tincture of saffron      twenty drops  
 Orange-flower water      two drachms  
 Water      four ounces  
 Make an emulsion.

*Soubiran.*

Employed as a demulcent cough mixture.

#### EMOLLIENT CLYSTER.

R. Oil of almonds  
 Brown sugar, each,      one ounce  
 Barley water      half a pint  
 Mix.  
 Barley water      a sufficient quantity  
 Strain. To be used as an anodyne demulcent, in doses of a small tumblerful, adding to each two drachms of white sugar.

*Pierquin.*

#### BITTER ALMOND WATER.

R. Almond cake      one part  
 Boiling water      six parts  
 Mix well, and let stand for twelve hours, then distil one part with a moderate heat.

*Guibourt.*

Used as a flavoring ingredient, but with caution, as it contains hydrocyanic acid.

#### DIURETIC WATER.

R. Bitter almonds      four ounces  
 Dried elder flowers      six ounces  
 Peach kernels      four ounces  
 Cherry kernels      two ounces  
 Wine      eight pints  
 Digest for two days and distil off one half.

*Palat. Ph.*

Said to act as a diuretic in doses of half an ounce, but requires to be used with much caution.

#### OIL OF BITTER ALMONDS.

R. Bitter almonds      twenty pounds  
 Water      a sufficient quantity  
 Pound the almonds, express the oil, let the cake macerate in water for twenty-four hours, distil as long as the product is

odorous, separate the oil, redistil the water, and again separate the oil. *Cottrecau.*

Very poisonous, especially when fresh; principally employed as a flavoring ingredient, but should always be used with great caution.

LOCKSTADT'S PILLS.

R. Sulphate of quinine three grains  
Aromatic powder ten grains  
Oil of bitter almonds one drop  
Extract of gentian sufficient  
Make ten pills. The whole to be taken at a dose, before an expected paroxysm of intermittent fever. *Phæbus.*

WHITE LINCTUS.

R. Blanched almonds No. 12  
White sugar six drachms  
Gum tragacanth twelve grains  
Orange-flower water one drachm  
Water four ounces  
Make an emulsion *Guibourt.*

Used as a demulcent, in catarrhs and bowel complaints.

R. Blanched almonds four drachms  
White sugar six drachms  
Oil of almonds three drachms  
Orange-flower water two drachms  
Gum tragacanth sixteen grains  
Water four ounces  
Make an emulsion *Giordano.*

MIXTURES OF OIL OF ALMONDS.

R. Oil of almonds  
Simple syrup  
Water equal parts  
*Ratier.*

R. Oil of almonds one ounce  
Gum Arabic  
White sugar, each, half an ounce  
Water eight ounces  
Make an emulsion *Foy.*

R. Oil of almonds  
Gum Arabic  
Orange-flower water, each, half an ounce  
Syrup of mallows one ounce  
Water three ounces  
Make an emulsion. *Paris Ph.*

R. Oil of almonds one ounce  
Yolk of egg No. 1  
Syrup of mallows one ounce  
Orange-flower water two drachms  
Water two ounces  
Make an emulsion. *Guibourt.*

R. Oil of almonds  
Syrup of orgeat, each, seven drachms  
Gum Arabic two drachms  
Bitter almond water half an ounce

Make an emulsion. Dose, a teaspoonful. *Radiis.*

R. Oil of sweet almonds  
Syrup of tolu, each, one fl. ounce  
Distilled water six fl. ounces  
Solution subcarbonate potassa sufficient

Make emulsion. A tablespoonful two or three times a-day in catarrh. *Ainslie.*

COSMETIC LINIMENT.

R. Oil of almonds one ounce  
Balsam of Mecca one drachm  
Sub. carb. of potassa half a drachm  
Rose water four fl. ounces  
Rub the balsam with the oil, add the potassa, triturate for ten minutes, and gradually introduce the rose water.

MACASSAR OIL.

R. Oil of almonds at will  
Alkanet root sufficient  
to color  
Oil of cinnamon sufficient  
to scent *Steph. and Church.*

FIXATURE.

R. Oil of almonds one ounce  
White wax one drachm  
Tincture of mastic three drachms  
Oil of bergamot one drachm  
Melt the oil and wax together by a moderate heat, then add the tincture of mastic and oil of bergamot, and strain.  
To fix and retain the hair in form. *Redwood.*

AMYLUM.

STARCH.

MUCILAGE OF STARCH.

R. Starch three drachms  
Water one pint  
Triturate the starch with the water gradually added, then boil for a few minutes. *Edin. Ph.*

Mainly employed as a demulcent injection in irritation of the rectum, &c., and forms a good vehicle for laudanum and other active remedies when given in enemata.

COMPOUND POWDER OF STARCH.

R. Liquorice root one ounce  
Starch  
Gum Arabic  
tragacanth  
Quince seeds  
Poppy seeds, each, two ounces  
Blanched almonds four ounces  
Sugar candy twelve ounces  
Triturate well. *Van Mons.*



Has been advised in spitting of blood, catarrh, and diarrhoea, in doses of half a drachm to a drachm.

### STARCH LOZENGES.

R. Starch  
 Orris root, each, half an ounce  
 Extract of liquorice one ounce  
 Saffron half an ounce  
 White sugar one pound  
 Mix, and form into lozenges. *Pideret.*  
 R. Starch one ounce  
 Gum Arabic two ounces  
 White sugar one pound  
 Benzoic acid half a drachm  
 Rose water sufficient  
 to form a paste. To be divided into lozenges. *Swediaur.*

These lozenges are somewhat stimulating, and are best suited to chronic catarrhs.

### STARCH JELLY.

R. Starch six ounces  
 Water six pounds  
 Boil till reduced to three pounds, and add  
 Wine four ounces  
 Lemon juice one ounce  
 Simple syrup two ounces  
 Mix well, and permit to cool. *Swediaur.*

A nourishing diet for convalescents.

### MIXTURE OF STARCH AND SUET.

R. Cow's milk six pounds  
 Mutton suet two ounces  
 Boil by a gentle heat; constantly stirring, and add  
 Starch a spoonful  
 Boil a short time, and add  
 White sugar a sufficiency  
 Recommended in wineglassfuls in dysentery. *Pringle.*

## AMYLI IODIDUM.

### IODIDE OF STARCH.

R. Iodine twenty-four grains  
 Triturate with a little water, and add gradually  
 Powdered starch one ounce  
 Continue the trituration till the mixture assumes a deep and uniform color.  
*Buchanan.*

Dose, from half a drachm, to be gradually increased to four drachms. Given in cases requiring the use of iodine.

## ANEMONE.

### ANEMONE.

A genus of perennial herbs with radical leaves. They are all acrid and stimulating. The spe-

cies most generally employed, are the *A. pratensis* and *A. pulsatilla*, both natives of Europe, but it is probable that the *A. patens* of this country has the same properties.

The *A. pratensis* was at one time in much repute in amaurosis and chronic diseases of the skin.

*Ser. Syst.* Polyand. polygyn. *Nat. Syst.* Ranunculaceae.

Lindley, Med. Flor. 2. Griffith, Med. Bot. 80.

### EXTRACT OF ANEMONE.

R. Fresh anemone a sufficient quantity  
 Pound in a mortar with a little water, express the juice, and evaporate in a water-bath. *Beral.*

The dose is from one grain to four, gradually increasing. It has been advised in doses of half a grain to a grain, in combination with sugar of milk, in whooping-cough.

### ANEMONE PILLS.

R. Powder of anemone one drachm  
 Extract of anemone sufficient  
 Make sixty pills. Dose, one to five, three times a-day, gradually increasing.

Said to have proved useful in amaurosis.

### COLLYRIUM OF ANEMONE.

R. Anemone three drachms  
 Water sufficient  
 to make six ounces of infusion, add,  
 Corrosive sublimate one grain  
 To be dropped in the eye, in opacity of the cornea and incipient cataract. *Radiis.*

### WATER OF ANEMONE.

R. Fresh anemone four parts  
 Water sufficient  
 to prevent empyreuma. Distil six parts.  
*Van Mons.*

This is the best preparation, as it contains the active principle. It is somewhat caustic, and has been recommended to remove freckles on the skin.

## ANGELICA.

### ANGELICA.

The only species of this genus, that is officinal in our Pharmacopœia, is *A. atro-purpurea*. This possesses much the same properties as the Garden Angelica, and is popularly used in flatulent colic and cardialgia. In Europe, the *A. officinalis* is generally used; and, as both species appear to possess the same properties, they may be indifferently employed.

*Ser. Syst.* Pentand. monog. *Nat. Syst.* Apiaceae.

Torrey and Gray, Flor. 1, 64. Griffith, Med. Bot. 322.

### COMPOUND TINCTURE OF ANGELICA.

R. Aniseed  
 Angelica seeds, each, half a pound  
 Proof spirit one gallon



Water sufficient to prevent empyreuma. Macerate for twenty-four hours, and distil a gallon.

A stimulant, used as a stomachic and carminative. Dose, half a drachm to four drachms. *Dublin Ph.*

#### TINCTURE OF ANGELICA.

R. Angelica root one part  
Alcohol eight parts  
Water sixteen parts  
Distil six parts. *Van Mons.*

Employed as a carminative and alexipharmic, in doses of one or two fl. drachms.

#### WATER OF ANGELICA.

R. Angelica root one part  
Water six parts  
Distil three parts *Cottreau.*

#### ERRHINE MIXTURE.

R. Water of angelica  
orange flowers  
roses equal parts  
Mix. *Pierquin.*

This has been recommended to destroy the fetid smell in ozæna.

#### CONSERVE OF ANGELICA.

R. Fresh root of Angelica one part  
Water eight parts  
Macerate for a few days, boil, clarify the decoction, and add  
Sugar one part and a-half  
cook the root in the syrup, and preserve in this state, or dry. *Giordano.*

#### ESSENCE OF ANGELICA.

R. Angelica root one part  
Diluted alcohol eight parts  
Water sixteen parts  
Distil off six parts. Stomachic and carminative. *Van Mons.*

### ANGUSTURA.

#### ANGUSTURA BARK.

This is recognized by the U. S. Pharmacopœia as the product *Galipea officinalis*, but is also obtained from one or more other species, all natives of South America. It is compact, in flat or rolled, but seldom quilled pieces, of a light gray color externally, and of a yellowish-fawn within. It is very fragile, with a resinous fracture. The odor is faint but disagreeable; the taste is bitter and somewhat aromatic, leaving a sensation of pungency. Its powder is pale yellow.

*Ser. Syst.* Heptand. monog. *Nat. Syst.* Rutacææ. Hancock, Trans. Med. Soc. 1849. Griffith, Med. Bot. 192.

It is a stimulating tonic, in large doses, acting on the stomach and bowels. It is more used in chronic diarrhœa, and a debilitated condition of the stomach and bowels, than as a febrifuge.

#### INFUSION OF ANGUSTURA.

R. Bruised angustura bark half an ounce  
Boiling water one pint  
Macerate for two hours in covered vessel, and strain. *U. S. Pharm.*

The dose is two fl. ounces, every two to four hours.

#### TINCTURE OF ANGUSTURA.

R. Powdered angustura bark two ounces  
Proof spirit two pints  
Macerate for fourteen days, then filter. *Dub. Pharm.*

This contains the active principles of the bark, and may be given in the dose of one or two fl. drachms.

#### ELECTUARY OF ANGUSTURA.

R. Powdered angustura half an ounce  
canella half a drachm  
Honey a sufficient quantity  
Make an electuary. *Foy.*

This has been employed with benefit in chronic diarrhœa and dysentery, in doses of about a drachm.

#### MIXTURE OF ANGUSTURA.

R. Infusion of angustura six fl. ounces  
Cinnamon water half fl. ounce  
Laudanum twenty drops  
Mix. Three spoonfuls a-day. *Radius.*

### ANISUM.

#### ANISE.

This, the fruit of *Pimpinella anisum*, a perennial plant, cultivated largely in some parts of Europe, and often met with in gardens in this country. The seeds are of a grayish-green color, of an ovate, compressed form, with five pale, narrow ridges. They are aromatic, and have a pleasant, sweetish taste.

*Ser. Syst.* Pentand. digyn. *Nat. Syst.* Apiacææ.

Linn. Sp. Pl. 379. Griffith, Med. Bot. 319.

Anise is an aromatic stimulant, and is used in various forms, in colic and dyspepsia, and to prevent the griping of some purgatives. The oil is officinal, but is much superseded by that of *Illicium anisatum*, which is almost identical.

#### SPIRIT OF ANISEED.

R. Anise, bruised, ten ounces  
Proof spirit one gallon  
Water two pints  
Mix, and distil a gallon by a gentle fire. *Lond. Pharm.*

#### ANISE LOZENGES.

R. White sugar  
Anise water, each, two ounces  
Evaporate to the consistence of honey, and add a mixture of  
White sugar four ounces  
Oil of anise half a drachm

Pour on a cold marble slab. *Cottureau.*

Used as a carminative and anti-dyspeptic.

#### MIXTURE OF ANISEED.

R. Powdered anise sixteen ounces  
fennel one ounce

Extract of liquorice, each, one ounce  
Syrup of mallows twelve ounces

Mix. *Hanover Pharm.*

Said to be an excellent carminative, especially for children, in doses of about a teaspoonful.

#### TINCTURE OF ANISEED.

R. Spirit of anise sixteen ounces  
Elixir proprietatis one ounce  
Aromatic confection half an ounce  
Pink flowers one drachm

Filter, after sufficient maceration.

*Wirtemberg Pharm.*

Stomachic, carminative, and pectoral. Dose, one to two drachms.

#### OIL OF ANISE MIXTURE.

R. Oil of anise twelve minims  
Sugar one drachm  
Tincture of ginger two fl. drachms  
Peppermint water six fl. ounces

Mix. Dose, two or three spoonfuls, as a carminative. *Ainslie.*

### ANTHEMIS.

#### CHAMOMILE.

Several species of *Anthemis* are employed in medicine, but the most important and the only one recognized in the U. S. Pharm., is *A. nobilis*. This is an herbaceous perennial, native of Europe, where it is also extensively cultivated, and is also to be found in gardens in this country. The part used is the flowers; these, as found in the shops, are large, roundish, of a yellowish white color, a peculiar somewhat balsamic odor, and a warm, bitter, aromatic taste.

*Sex. Syst.* Syngen. super. *Nat. Syst.* Asterracæ.

Linn. Sp. Pl. 1260. Griffith, Med. Bot. 401.

Chamomile is an aromatic bitter tonic, in small doses, but emetic in large ones; the usual mode of administration is in infusion.

#### INFUSION OF CHAMOMILE.

R. Chamomile half an ounce  
Boiling water one pint  
Macerate for ten minutes in a covered vessel, and strain. *U. S. Pharm.*

When cold, it is tonic in doses of one or two fl. ounces, several times a day. As an aid to the operation of emetics, it should be given in a tepid state, and largely.

#### COMPOUND DECOCTION OF CHAMOMILE.

R. Chamomile half an ounce  
Fennel seeds two drachms  
Water one pint

Boil for a short time, and strain.

*Dublin Pharm.*

#### EXTRACT OF CHAMOMILE.

R. Chamomile one pound  
Water one gallon

Boil down to four pints, filter whilst hot, and evaporate on a water-bath to proper consistence. *Edin. Pharm.*

A mild, bitter tonic, in doses of ten to twenty grains.

#### MIXTURE OF CHAMOMILE.

R. Infusion of chamomile four ounces  
Syrup of orange flowers one ounce  
Ethereal tincture of valerian one drachm

Mix. *Foy.*

This has proved useful in hysteria, and other nervous disorders, especially where the stomach is disordered. Dose, a dessertspoonful.

R. Extract of chamomile  
Gum Arabic, each, two drachms  
Chamomile water five ounces  
Tamarind pulp  
Syrup of chamomile, each, one ounce

Mix. *Phæbus.*

Said to be useful in diarrhœa, in tablespoonful doses.

#### SYRUP OF CHAMOMILE.

R. Water of chamomile two pounds  
Syrup of mallows half a pound  
Extract of liquorice one ounce

*Cadet de Gassicourt.*

Has been recommended in chronic cough and affections of the lungs, in one or two ounces, to be taken during the day.

R. Coarsely powdered chamomile one ounce

Cold water twelve fl. ounces

Coarsely powdered sugar twenty ounces

Make an infusion by displacement, of the chamomile and water. Remove the residue, and place the sugar in its place; on this pour the infusion, till entirely dissolved. Dose, a tablespoonful.

*E. Parrish.*

#### COMPOUND CHAMOMILE PILLS.

R. Assafetida one scruple and a-half  
Extract of chamomile one drachm  
Powdered rhubarb one scruple

Make mass, and divide into thirty pills. Three, twice a-day in flatulent dyspepsia.

*Ainslie.*

### ANTIMONIUM.

#### ANTIMONY.

A metal of a silvery blue color, very brilliant,





## KERMESINE POWDER.

- R. Kermes mineral two grains  
 Sugar of milk  
 Gum Arabic, each, one drachm  
 Divide into six powders. *Radiis.*

Given as a diaphoretic and expectorant, in the dose of one every four hours.

## COMPOUND KERMESINE POWDER.

- R. Kermes mineral half a drachm  
 Ipecacuanha one grain  
 Prepared chalk  
 Gum Arabic, each, twelve grains  
 Mix, and divide into three powders; one to be taken three times a-day, in spoonful of tea. *St. Marie.*

This formula has been much praised in whooping-cough; the proportions are intended for a child of about twelve years of age.

## LOZENGES OF KERMES MINERAL.

- R. Kermes mineral  
 Powdered squills, each, sixty grains  
 Extract of opium one drachm  
 Ipecacuanha two drachms  
 White sugar three ounces  
 Mucilage of tragacanth a sufficient quantity

Mix, and make four hundred lozenges. *Foy.*

These are expectorant and calming in catarrh. One is to be taken every two hours.

- R. Kermes mineral one drachm  
 Powdered gum Arabic eight ounces  
 Extract of opium twelve grains  
 liquorice two ounces  
 Sugar thirty-two ounces  
 Oil of aniseed six drops  
 Mucilage of tragacanth sufficient  
 Mix, and form ten grain lozenges. Known as Tronchin's lozenges. Used in catarrh. *Van Mons.*

- R. Benzoic acid two drachms  
 Sugar thirty-two ounces  
 Powdered orris root four drachms  
 gum Arabic two ounces  
 starch four ounces  
 Water four fl. ounces  
 Mix, and make fifteen grain lozenges. *Vandamme.*

## EMULSION WITH KERMES MINERAL.

- R. Kermes mineral ten grains  
 Oxy mel of squills one ounce  
 Emulsion gum Arabic four ounces  
 Mix. A spoonful occasionally. *Radiis.*

## MIXTURE WITH KERMES MINERAL.

- R. Kermes mineral two grains  
 Gum Arabic one drachm

## Syrup

four fl. ounces

of grapes one fl. ounce

Mix. A spoonful occasionally in catarrh, when expectoration is difficult. *Pierquin.*

## GOLDEN SULPHURET OF ANTIMONY.

- R. Mother water of kermes mineral  
 add gradually  
 Acetic acid  
 till a precipitate is no longer formed, wash this well in cold water, and dry by a gentle heat. *Paris Cod.*

## POWDER OF GOLDEN SULPHURET OF ANTIMONY.

- R. Golden sulph. of antimony  
 Camphor, each, a grain and a-half to two grains  
 Nitrate of potassa a half to one drachm  
 Gum Arabic  
 White sugar, each, one drachm  
 Triturate well, and divide into six powders. *Radiis.*

The dose is one, every two hours, in pneumonia, after a reduction of the primary symptoms.

- R. Golden sulph. of antimony eight grains  
 Opium two grains  
 Powdered Peruvian bark  
 Chamomile, each, four scruples

Mix, and divide into eight powders; to be taken during the apyrexia. *Radiis.*

## MIXTURE OF SULPHURET OF ANTIMONY.

- R. Golden sulph. of antimony six grains  
 Extract of lettuce one scruple  
 Syrup of senega two ounces  
 Mix. A teaspoonful every two hours. *Phabus.*

## SULPHURET OF ANTIMONY AND LIME.

- R. Golden sulph. of antimony one part  
 Quicklime three parts  
 Triturate together, and add  
 Boiling water twenty-four parts  
 Dry with a gentle heat, constantly stirring, and keep in a well-closed bottle. *Batav. Ph.*

Emetic and resolvent. Much praised in gout, rheumatism, scrofula, &c. Dose, one to six grains.

## PILLS OF SULPHURET OF ANTIMONY AND LIME.

- R. Sulphuret of antimony  
 and lime half a drachm  
 Mucilage of tragacanth one drachm  
 Mix, and make sixty pills; five, thrice a-day. *Augustin.*



PLASTER OF SULPHURET OF ANTIMONY  
AND LIME.

R. Yellow wax one drachm and a-half  
Melt, and mix.

Pitch one ounce  
and incorporate in the cooling mixture  
Sulphuret of antimony and  
lime five scruples

As a plaster in sciatica, chronic head-  
ache, &c. It sometimes occasions pustules.  
*Radiis.*

## ANTIMONII SULPHAS.

## SULPHATE OF ANTIMONY.

R. Antimony two parts  
Sulphuric acid three parts  
Heat in an earthen vessel, stirring from  
time to time, leave the mixture on the fire  
till it has assumed a grayish-white color,  
wash carefully, to remove the excess of  
acid, and dry the powder. *Van Mons.*

ANTIMONII ET POTASSÆ  
TARTRAS.

## TARTAR EMETIC.

## POWDER OF TARTAR EMETIC.

R. Tartar emetic one grain  
Sugar thirty grains  
Mix, and divide into ten powders, one  
every three or four hours, as a diaphoretic  
in fevers, after bleeding. *A. T. Thomson.*

## COMPOUND POWDER OF TARTAR EMETIC.

R. Tartar emetic half a drachm  
Sulphate of potassa one ounce  
Powdered liquorice one ounce and a-  
half  
Mix well. Two scruples contain one grain  
of tartar emetic. *Beasley.*

R. Tartar emetic one grain  
Kermes mineral two grains  
Powdered orris root one scruple  
Gum Arabic  
Sugar, each, one drachm  
Mix, and divide into twenty-four powders,  
one every hour, as expectorant. *Cadet.*

POWDER OF TARTAR EMETIC AND  
QUININE.

R. Tartar emetic three grains  
Sulphate of quinine ten grains  
Mix, and divide into six powders, one,  
every two hours, in apyrexia of obstinate  
intermittents. Both vomits and purges.  
*Gola.*

POWDER OF TARTAR EMETIC AND PHOS-  
PHATE OF LIME.

R. Tartar emetic one grain  
Phosphate of lime thirty-two grains  
Mix. To be divided into four powders;  
one to be taken in the evening, in chronic  
dysury, produced by checked perspiration.  
*Swediaur.*

POWDER OF TARTAR EMETIC AND IPECA-  
CUANHA.

R. Tartar emetic two grains  
Ipecacuanha two scruples  
Starch half a drachm  
Mix, and divide into three powders; one  
every quarter of an hour, till vomiting is  
induced. *Radiis.*

## BOLUS OF TARTAR EMETIC.

R. Tartar emetic six grains  
Powdered Peruvian bark six drachms  
Extract of juniper sufficient  
Mix, and make sixty boluses. To be taken  
in twenty-four hours in quartan intermit-  
tent. *Laennec.*

## PILLS OF TARTAR EMETIC AND CAMPHOR.

R. Tartar emetic two grains  
Powdered opium six grains  
Camphor thirty-six grains  
Alcohol three drops  
Conserve of roses sufficient  
Powder the camphor with the alcohol, add  
the other powders, mix and incorporate  
with the conserve, and divide into eleven  
pills. One every fourth hour as a diapho-  
retic. *Ellis.*

## PILLS OF TARTAR EMETIC AND OPIUM.

R. Tartar emetic  
Opium, each, one grain and a-half  
Powdered tragacanth  
Conserve of roses, each, sufficient  
Mix, and make twenty-five pills. Two,  
night and morning, in chronic pulmonary  
catarrh. *Parrish.*

R. Tartar emetic twelve grains  
Opium ten grains  
Crumb of bread  
Gum Arabic, each, sufficient  
Mix, and make pills of half a grain. Dose,  
one increased to three in chronic rheuma-  
tism. *Broussais.*

PILLS OF TARTAR EMETIC AND  
GUAIACUM.

R. Tartar emetic one grain  
Powdered guaiacum half a drachm  
Pill of aloes and myrrh half a drachm  
Molasses sufficient  
Mix, and make sixteen pills. *Beasley.*

## SOLUTION OF TARTAR EMETIC.

R. Tartar emetic                      four grains  
       Sugar                                one drachm  
       Distilled water                four fl. ounces  
 Dissolve. A tablespoonful every ten or fifteen minutes till it operates. *Ellis.*

## SOLUTION OF TARTAR EMETIC AND SQUILL.

R. Tartar emetic                      two grains  
       Oxymel of squill                half an ounce  
       Water                                two fl. ounces and a-half  
 Mix. One-half to be taken, and if it does not vomit in fifteen minutes, the remainder. *Augustin.*

## EMULSION OF TARTAR EMETIC.

R. Tartar emetic                      five grains  
       Camphor                            half a drachm  
       Blanched almonds  
       Syrup, each,                      one ounce  
       Water                                ten fl. ounces  
 Make an emulsion with the almonds and water, mix the camphor rubbed with a few drops of alcohol, add the tartar emetic; when dissolved, add the syrup; emetic and expectorant, according to the dose. *Van Mons.*

## CLYSTER OF TARTAR EMETIC.

R. Tartar emetic                      one to two scruples  
       Tepid solution of gum Arabic one pint  
 To overcome obstinate constipation. To be used with much caution. *Chapman.*

R. Tartar emetic                      three to eight grains  
       Infusion of arnica                twelve fl. ounces  
 Dissolve. In apoplexy and cerebral affections. *Foy.*

## LOTION OF TARTAR EMETIC.

R. Tartar emetic                      one scruple  
       Water                                one pint  
 Dissolve. In cutaneous affections. *Pierquin.*

## LOTION OF TARTAR EMETIC AND CORROSIVE SUBLIMATE.

R. Tartar emetic                      one drachm  
       Corrosive sublimate                five grains  
       Compound spirit of  
       lavender                            one fl. drachm  
       Water                                one fl. ounce  
 Mix. Wet the finger with the solution, and rub on part for five or ten minutes; it will cause a pustular eruption in a few hours. *Hannay.*

## LOTION OF TARTAR EMETIC AND CAMPHOR.

R. Tartar emetic                      one drachm  
       Boiling water                      one pint  
       Tincture of camphor                half fl. ounce

Mix. As a counter-irritant on the chest, in pulmonary complaints. *Augustin.*

## OINTMENT OF TARTAR EMETIC.

R. Tartar emetic                      one drachm  
       Lard                                one ounce  
 Mix. When applied to the skin occasions a pustular eruption. *Hannay.*  
 R. Tartar emetic                      two drachms  
       Sugar                                one drachm  
       Cinnabar                            five grains  
       Spermaceti ointment                nine drachms  
 Mix. *Jenner.*

## COMPOUND TARTAR EMETIC OINTMENT.

R. Tartar emetic                      half a drachm  
       Sal ammoniac                      one drachm  
       Camphor                            twenty-five grains  
       Musk                                ten grains  
       Lard                                one ounce  
 Mix. As a counter-irritant, in chronic diseases of the liver. *Fabre.*

## PLASTER WITH TARTAR EMETIC.

R. Tartar emetic                      one part  
       Burgundy pitch                    seven parts  
 Mix, and spread. *Beral.*  
 Or, it may be made by sprinkling tartar emetic on a pitch, or adhesive plaster. *Ellis.*

It takes some time for it to produce its effect, and the eruption that ensues is very irritating and painful.

R. Resin plaster                      one ounce  
       Resin                                four drachms  
       Venice turpentine                three drachms  
 Melt together by a gentle heat, and when nearly cold, add

Powdered tartar emetic                one drachm  
 To be applied to the nape of the neck in scarlatina in children, also in rheumatism. *Niemann.*

## AMMONIACAL LINIMENT WITH TARTAR EMETIC.

R. Ammoniacal liniment                one fl. ounce  
       Tartar emetic                      one drachm  
 Mix. To indolent tumors, &c. *Ellis.*

## ANTIMONIAL WINE.

R. Tartar emetic                      one scruple  
       Wine                                ten fl. ounces  
 Dissolve. *U. S. Ph.*

Dose, as emetic for children, from thirty drops to a fl. drachm, every fifteen minutes, till it operates.

## COLLYRIUM WITH ANTIMONIAL WINE.

R. Antimonial wine                      half fl. ounce  
       Rose water                        four fl. ounces  
       Balsam of Fioraventi                two drops

R. Powdered root of Indian  
hemp one pound  
Water one gallon  
Macerate for twenty-four hours, boil down  
one quart, strain, and evaporate to a pro-  
per consistence. Dose, three to five grains.







OINTMENT OF IODIDE OF SILVER.

- R. Iodide of silver                      ten grains  
 Lard    one ounce  
 Mix.    *Serre.*

Used in the same cases as the ointment of the cyanide.

ARGENTI OXIDUM.

OXIDE OF SILVER.

- R. Crystallized nitrate of silver   one ounce  
 Caustic potash                          seven ounces  
 Water    eighteen ounces

Dissolve the nitrate in two or three ounces of the water, and the potash in the remainder, mix the solutions, stir and collect the precipitate, wash it carefully, and dry.

*Duhamel.*

Used as a substitute for the nitrate, in doses of about half a grain twice a-day, in diseases of the stomach, of undue secretion, &c.

OINTMENT OF OXIDE OF SILVER.

- R. Oxide of silver                      twenty grains  
 Lard    one ounce  
 Rub well together.                      *Serre.*

Used as an application to irritable ulcers, &c.

ARGENTI NITRAS.

NITRATE OF SILVER.

- R. Silver, in small pieces,           one ounce  
 Nitric acid                               five fl. drachms  
 Distilled water                          two fl. ounces

Mix the acid with the water, and dissolve the silver in the mixture, on a sand-bath, then gradually increase the heat, so as to dry the salt. Melt this in a crucible, and continue the heat till ebullition ceases, then immediately cast into moulds. *U. S. Ph.*

Used as a tonic and antispasmodic, in doses of a fourth of a grain, gradually increased.

SOLUTION OF NITRATE OF SILVER.

- R. Nitrate of silver                      one drachm  
 Distilled water                          one fl. ounce  
 Dissolve, and strain. Keep in the dark. *London Ph.*

PILLS OF NITRATE OF SILVER.

- R. Crystallized nitrate of silver   one grain  
 Crumb of bread                          one drachm  
 Make sixteen pills.                      *Guibourt.*

Each pill contains a sixteenth of a grain of the nitrate.

- R. Nitrate of silver                      ten grains  
 Opium    four grains  
 Extract of gentian  
     liquorice, each,           a drachm  
    and a-half

Make pills of a grain each, these each contain a twentieth of the nitrate. *Brera.*

- R. Nitrate of silver                      two grains  
 Crumb of bread                          sufficient

Mix well, and divide into four pills. One to be taken every six hours.

Advised in chronic epilepsy and other spasmodic disorders. To prevent the blue tinge of the skin, so often produced by a continued use of the salt of silver, eight drops of diluted nitric acid in a fl. ounce of water, should be taken after each pill. *A. T. Thompson.*

MACKENSIE'S SOLUTION.

- R. Nitrate of silver                      one scruple  
 Distilled water                          one ounce  
 Dissolve.                                      *Mackensie.*

Used to wash the throat and fauces, in affections of those parts.

NITRATE OF SILVER COLLYRIUM.

- R. Nitrate of silver                      ten grains  
 Laudanum                                  half a drachm  
 Distilled water                          one ounce  
 Mix.    *Foy.*

Employed as a wash in purulent ophthalmia.

ANTI-EPILEPTIC MIXTURE.

- R. Nitrate of silver                      twelve grains  
 Laudanum                                  twenty drops  
 Mucilage of Gum Arabic           one ounce  
 Mix.    *Radius.*

Given in epilepsy, in doses of twenty drops, twice a-day.

HAIR DYE.

- R. Silver    two drachms  
 Steel filings                              half an ounce  
 Nitric acid                                  an ounce  
 Rain water                                  eight ounces  
 Dissolve, and strain. To be applied by means of a close brush. *Bateman.*

INDELIBLE INK.

- R. Carbonate of soda                   half an ounce  
 Distilled water                          four ounces  
 Mix, and make mordant.  
 R. Nitrate of silver                      five scruples  
 Gum Arabic                                  two drachms  
 Sap green                                      one scruple  
 Distilled water                          one fl. ounce  
 Mix, and make ink.

INDELIBLE INK WITHOUT MORDANT.

- R. Nitrate of silver                      one ounce  
 Crystallized carbonate of  
     soda    one ounce and a-half  
 Tartaric acid                              eight scruples  
 Strong solution of ammonia  
    two fl. ounces  
 Archil     half fl. ounce  
 White sugar                                  four drachms  
 Powdered gum Arabic           twelve drachms

Distilled water sufficient  
Dissolve the nitrate and carbonate in separate portions of the water, mix the solutions, collect and wash the precipitate on a filter, rub it whilst still moist in a porcelain mortar with the tartaric acid, till effervescence has ceased, add the ammonia to dissolve the tartrate of silver, then mix the archil, sugar, and gum, adding as much as will make six fl. ounces.

*Redwood.*

#### OINTMENT OF NITRATE OF SILVER.

R. Nitrate of silver two grains  
Lard two drachms  
Mix well. As an application in acute ophthalmia.

*Velpeau.*

R. Nitrate of silver four parts  
Lard thirty parts  
or, eight parts of the salt to same proportion of lard, or, twelve parts to thirty. Used as application to white-swelling.

*Jobert.*

R. Nitrate of silver one part  
Lard seven and a-half parts  
Mix, to smear bougies, in cure of gonorrhœa.

*Macdonald.*

#### COMPOUND OINTMENT OF NITRATE OF SILVER.

R. Nitrate of silver ten to twenty grains  
Zinc ointment half an ounce  
Balsam of Peru one drachm  
Triturate thoroughly together. To heal venereal ulcers, and to promote cicatrization.

*Fricke.*

R. Nitrate of silver three grains  
Solution of subacetate of lead, five drops  
Lard one drachm

Mix well. In chronic ophthalmia.

*Guthrie.*

Mustard seed, bruised, each, one ounce  
Boiling water one pint  
Macerate for two hours in a covered vessel, and strain.

*U. S. Ph.*

It is sometimes used in paralytic, scorbutic, and dropsical affections, attended with debility. The dose is two fl. ounces, three or four times a-day.

#### COMPOUND SPIRIT OF HORSERADISH.

R. Sliced horseradish  
Dried orange peel, each, twenty ounces  
Bruised nutmeg five drachms  
Proof spirit one gallon  
Water two pints  
Mix, and distil a gallon by a gentle heat.

*London Ph.*

Employed as a diuretic, in dropsy with debility. Dose, one to four fl. drachms.

#### MIXTURE OF HORSERADISH.

R. Infusion of horseradish four ounces  
Syrup of cinchona one ounce  
Extract of fumitory one drachm  
Mix.

*Foy.*

In spoonful doses, as an antiscorbutic.

#### COMPOUND HORSERADISH CATAPLASM.

R. Bruised horseradish six drachms  
Mustard seed one ounce  
Flaxseed meal two ounces and a-half  
Vinegar sufficient

Mix, and make cataplasm, to be applied to the feet as revulsive in diseases of head.

*Ainslie.*

#### COMPOUND INFUSION OF HORSERADISH.

R. Horseradish one ounce  
Boiling water one pint  
Infuse for an hour in a close vessel; on cooling, add

Simple syrup one ounce and a-half.

A wineglassful, several times a-day, in dropsy, especially when arising from a granular affection of the kidneys.

## ARMORACIA.

### HORSERADISH.

This is a species of *Cochlearia*, the *C. armoracia*. A native of many parts of Europe, and much cultivated both there and in this country, for the sake of its roots, so well known as a condiment. The root is the part used in medicine. It has a pungent odor, and a warm, acrid taste.

*Sex. Syst.* Tetrad. silic. *Nat. Syst.* Brassicaceæ.

Linn. Sp. Pl. 904. Griffith, Med. Bot. 131.

As a remedial agent, it is an active stimulant, and when applied to the skin, acts as a rubefacient.

#### INFUSION OF HORSERADISH.

R. Fresh horseradish, sliced,

## ARNICA.

### WOLFSBANE.

Several species of this genus are medicinal, but one only is officinal, *A. montana*, a native of Europe; but it is likely that the *A. nudicaule* of this country is possessed of the same powers.

*Sex. Syst.* Syngen. super. *Nat. Syst.* Asteraceæ. Linn. Sp. Pl. 1245. Griffith, Med. Bot. 407.

Arnica is a stimulant, acting with much energy on the cerebro-spinal system, and is also an active irritant on the stomach and bowels. In Germany, where it is much employed, it is given to fulfil a variety of indications.

#### COMPOUND POWDER OF ARNICA.

R. Powdered arnica root  
serpentaria

sugar, each, two drachms  
 Oil of peppermint ten drops  
 Mix, and divide into sixteen powders.  
*Augustin.*

Dose, a powder, every two hours, in the diarrhoea complicating typhoid fevers.

## EXTRACT OF ARNICA.

R. Flowers of Arnica one part  
 Water eight parts  
 Alcohol one part  
 Mix, and macerate for three days at a gentle heat, express, distil off the alcohol, and evaporate the residue to a proper consistence.  
*Wurtzburg Ph.*

Dose, ten grains to a scruple, in chronic rheumatism and paralysis.

## INFUSION OF ARNICA.

R. Flowers of arnica one ounce  
 Boiling water one pint  
 Infuse for half an hour, and strain.  
*Cotteneau.*

Used in the same cases as the last.

## COMPOUND INFUSION OF ARNICA.

R. Flowers of arnica one drachm  
 chamomile half an ounce  
 Peppermint two drachms  
 Boiling water nine ounces  
 Mix, macerate, and strain.  
*Copenh. Ph.*  
 Dose, one ounce.

## FOMENTATION OF ARNICA.

R. Flowers of arnica half an ounce  
 Boiling vinegar sufficient  
 To obtain six ounces, add  
 Carbonate of ammonia two drachms  
*Radiu.*

Used as a warm fomentation in œdema of the scrotum.

## DECOCTION OF ARNICA.

R. Flowers of arnica one ounce  
 Water three pints  
 Boil till reduced to two pints, strain, and add  
 Syrup of ginger two ounces  
*Swediaur.*

Dose, one to two ounces, every two hours, in aphonia, paralysis, rheumatism, &c.

## FOMENTATION OF ARNICA AND RUE.

R. Flowers of arnica two ounces  
 Rue one ounce  
 Boiling water sufficient  
 To obtain twelve ounces when strained, after one hour of maceration.  
*Radiu.*

Used as a fomentation in contusions.

## TINCTURE OF ARNICA.

R. Flowers of arnica one part

Alcohol sixteen parts  
 Digest, express, and filter.  
*Beral.*  
 Dose, thirty drops, several times a-day.

## ARSENICUM.

## ARSENIC.

Metallic arsenic is not employed in medicine, but several of its combinations are of much importance.

## ARSENICI IODIDUM.

## IODIDE OF ARSENIC.

R. Arsenious acid sixteen parts  
 Iodine one hundred parts  
 Heat in a glass alembic, and preserve the sublimation.  
*Magendie.*  
 R. Arsenious acid three parts  
 Iodine ten parts  
 Digest in  
 Water one hundred and nine parts  
 until no odor of iodine is perceptible; decant, and evaporate to dryness, and sublime in a close vessel.  
*Plisson.*

Dose, one-tenth of a grain, gradually increased to a quarter, three times a-day. Given in cancer, and obstinate cutaneous affections.

## SESQUIODIDE OF ARSENIC.

R. Finely powdered metallic arsenic one part  
 Iodine five parts  
 Triturate together, and introduce into a small flask or retort; place this on a sand-bath, and apply gentle heat till liquefaction is produced. The vessel should be nearly full, to prevent the formation of much iodine vapor, and to enable the operator to bring the fixed mass in contact with every part of it, so as to include any iodine that may have been sublimed. If no iodine odor is perceptible, and the contents assume a reddish yellow color, and crystallize on the sides of the vessel, the operation is complete.  
*W. Procter.*

## IODIDE OF ARSENIC PILLS.

R. Iodide of arsenic one grain  
 Extract of conium twenty grains  
 Mix, and make ten pills.  
*Thompson.*  
 Used in lepra, and obstinate eruptions.

## IODIDE OF ARSENIC OINTMENT.

R. Iodide of arsenic three grains  
 Lard one ounce  
 Triturate well.  
*Bielt.*

Employed in cases of lepra, and other cutaneous affections, but requires much caution.



LIQUOR ARSENICI ET HYD-  
RARGYRI IODIDI.SOLUTION OF IODIDE OF ARSENIC AND  
MERCURY.

DONOVAN'S SOLUTION.

R. Levigated metallic arsenic six grains,  
·08

Mercury fourteen grains ·82

Iodine forty-nine grains

Alcohol one fl. drachm

Rub together till dry, and has assumed a pale red color. Add eight fl. ounces distilled water, triturate for a short time, pour into a flask, and add half a drachm of hydriodic acid, made with two grains of iodine, and boil for a few moments. When cold, add sufficient distilled water to make up eight fl. ounces; filter. *Donovan.*

R. Sesquiodide of arsenic thirty-six grains

Biniodide of mercury thirty-four grains

Distilled water half a pint

Triturate the two iodides with half an ounce of the water, until they combine and dissolve, then add the rest of the water, and filter. *W. Procter.*

Each fl. drachm contains one-eighth of a grain of arsenic and one-fourth of a grain of protoxide of mercury. This preparation is said to be useful in obstinate cutaneous diseases, as lepra, lupus, &c. The dose is from fifteen minims to half a fl. drachm two or three times a-day. *Dunglison, N. R.*

DRAUGHT OF SOLUTION OF IODIDE OF  
MERCURY AND ARSENIC.R. Solution iodide mercury and arsenic  
two drachmsDistilled water three fl. ounces and a-  
half

Syrup of ginger half fl. ounce

Mix, and divide into four draughts. One to be taken night and morning; not to be given in a metallic spoon. *Donovan.*

## ARSENICI SULPHURETUM.

ORPIMENT.

R. Orpiment one ounce

Quicklime one pound

Starch ten ounces

Water sufficient

to form a soft paste. *Foy.*

This is spread on the part where it is desired to remove the hair, and washed off when it begins to dry. It is the *rusma* of the Turks.

POWDER OF ORPIMENT.

R. Orpiment one ounce

Quicklime twelve ounces

Jasmine powder ten ounces

Powder of palm soap four ounces

Mix well. *Morfit.*

This, when applied, is mixed with a little water.

Both these, although efficient for the purposes designed, are dangerous, and should never be used, except with extreme caution.

LOTION OF ORPIMENT.

R. Orpiment two drachms

Verdigris

Aloes

Myrrh, each, half a drachm

Rose water three ounces

White wine six ounces

Mix. *Van Mons.*

Used as an application to fungous ulcers.

GARGLE OF ORPIMENT.

R. Lanfranc's lotion half an ounce

Barley water six ounces

Honey of roses one ounce

Mix. *Giordano.*

As a gargle, in venereal sore throat.

## ARTEMISIA.

A genus of bitter herbs, several of which are used as medicinal agents to fulfil various indications; such as tonics, (*V. absinthium*), some as moxas, (*A. moxa*), and some as anthelmintics.

*Sex. Syst.* Syn. pol. super. *Nat. Syst.* Asteraceæ.

## 1. A. ABROTANUM.

SOUTHERNWOOD.

A native of the south of Europe and the Levant, and generally cultivated in gardens. Its odor is aromatic and peculiar, and its taste bitter. It is used as a tonic, antispasmodic, and vermifuge.

*Linn. Sp. Pl.* 1185. *Griffith, Med. Bot.* 406.

INFUSION OF SOUTHERNWOOD.

R. Southernwood six drachms

Boiling water one pint

Digest for two hours, and strain. Given in hysteria and in dismenorrhœa. *Taddei.*

CLYSTER OF SOUTHERNWOOD.

R. Southernwood half an ounce

Boiling water one pint

Digest for half an hour, and, to six or eight fl. ounces of strained infusion, add

Olive oil one ounce

Said to be effectual in cases of worms, and especially ascarides. *Radiis.*



## 2. A. SANTONICA.

## SEMEN CONTRA.

Under this name are included several species, as the *A. santonica*, *contra*, *judaica*, &c. They are principally from Barbary and the Levant. The parts used are the flowers, buds, peduncles, &c. Semen contra is much employed in Europe as an anthelmintic, but is seldom used in this country. The dose in powder is from ten to thirty grains.

## POWDER OF SEMEN CONTRA.

R. Semen contra	
Extract of tansy, each,	six grains
Oxide of iron	four grains
Oil of valerian	one drop.
Mix.	<i>Augustin.</i>

## ELECTUARY OF SEMEN CONTRA.

R. Semen contra	ten grains
Sulphate of iron	four grains
Jalap	
Honey, each,	one scruple
Mix.	<i>Rosenstein.</i>

## ANTHELMINTIC MIXTURE OF SEMEN CONTRA.

R. Infusion of semen contra	four ounces
Syrup of senna	one ounce
Mix.	<i>Foy.</i>

## ARUM.

## INDIAN TURNIP.

Several species of Arum are used in medicine, but the only one official in the U. S. Pharm., is *A. triphyllum*; a native plant, with a large, perennial cormus; this is white, fleshy, and extremely acrid in a fresh state, but becomes edible and bland when dried, and kept for any time; and the fecula obtained from it resembles arrowroot, in appearance and uses.

*Ser. Syst.* Mon. polyand. *Nat. Syst.* Aracæ.  
Bigelow, Am. Med. Bot. 1, 52.

The powder of the dried root may be given in doses of ten grains, in an emulsion of gum Arabic, sugar, and water, several times a-day. It has been found useful in chronic catarrh, chronic bronchitis, rheumatism, &c.

## ASARUM.

There are two plants recognized by this name, one by the London College, and the other by the U. S. Pharm.

*Ser. Syst.* Dodecand. monog. *Nat. Syst.* Aristolochiaceæ.

## 1. ASARUM EUROPÆUM.

## ASARABACCA.

A native of Europe, of which the leaves and root are used. The first have a feeble aromatic odor, when rubbed, and a somewhat spicy taste;

the latter has a strong, penetrating odor, and an acrid, bitter, and nauseous taste; this is sometimes used abroad, as a stimulant emetic, and anthelmintic; the leaves, as the basis of various errhine powders.

Linn. Sp. Pl. 633. Griffith, Med. Bot. 527.

## COMPOUND POWDER OF ASARABACCA.

R. Dried leaves of asarabacca	one ounce
Lavender flowers	one drachm
Rub together to a fine powder.	

*Dublin Ph.*

Has been found useful as an errhine, in some cases of headache, toothache, &c. Five or six grains are to be snuffed up the nostrils at night.

## 2. ASARUM CANADENSE.

## WILD GINGER.

Bigelow, Med. Bot. 1, 150. Barton, Veg. Mat. Med., p. 85.

This species is common to most parts of the U. S. The leaves are said by Dr. Barton and Bigelow, not to be emetic, but other authorities state that a teaspoonful of this powder never fails to act on the stomach. Like those of the asarabacca, they are eminently errhine. The root is an aromatic stimulant, with active diaphoretic properties, and may be used as a substitute for serpentaria.

## INFUSION OF WILD GINGER.

R. Root of wild ginger	half an ounce
Boiling water	one pint
Digest for an hour in a covered vessel, and strain.	
In all cases where Virginia snake-root is indicated.	Dose, one to two fl. ounces.

## ASCLEPIAS.

*Ser. Syst.* Pentand. digyn. *Nat. Syst.* Asclepiadaceæ.

Many species of this large genus are employed in medicine, and it is probable that the whole of them are endowed with active properties.

## 1. A. TUBEROSA.

## PLEURISY ROOT.

A native of most parts of the United States. The root is large, and irregularly tuberous; the taste of it is bitter, nauseous, and somewhat acrid. It is an active diaphoretic, and, in large doses, purgative. It has attained much popular reputation in the treatment of diseases of the respiratory organs, and more especially of pleurisy. The dose of the powder is from a scruple to a drachm, several times a-day, but is better in infusion or decoction.

## INFUSION OF PLEURISY ROOT.

R. Bruised Pleurisy Root	one ounce
Boiling water	two pints

Digest for two hours. Dose, three or four fl. ounces, warm, to be given every two or three hours, until it operates.

## 2. A. INCARNATA.

### SWAMP SILK WEED.

A native of many parts of the U. S., usually growing in wet places. The root is the official portion. It is emetic and cathartic in full doses of half a drachm to a drachm, and expectorant and alterative in small ones.

## 3. A. SYRIACA.

### SILK WEED.

Very common in the U. S. The root appears to have much the same properties as the last, and also some anodyne powers.

## ASPARAGUS.

### ASPARAGUS.

Several species of *Asparagus* have been used in medicine, but the only one that is official, is the *A. officinalis*. This is a native of Europe, and is generally cultivated there and in this country.

*Ser. Syst.* Hexand. monog. *Nat. Syst.* Liliaceæ.

*Linn. Sp. Pl.* 448. *Stokes, Bot. Mat. Med.* ii. 252.

The parts used are the roots and young shoots, (turiones.) These are diuretic, aperient, and deobstruent, and have been thought to exercise a sedative influence on the heart. *Dr. Wood* states (*Am. U. S. Dispens.* 1231) that the berries are more efficient than the shoots.

### EXTRACT OF ASPARAGUS SHOOTS.

R. Clarified juice of asparagus sufficient  
Evaporate by a mild heat to proper consistence.

*Soubiran.*

### EXTRACT OF ASPARAGUS ROOTS.

R. Roots of asparagus sufficient  
Bruise them, add sufficient water to cover them, express, strain, and evaporate by a mild heat.

*Soubiran.*

These extracts are given in doses of a scruple to a drachm, as diuretics.

### SYRUP OF ASPARAGUS SHOOTS.

R. Juice of asparagus shoots one pint  
White sugar two pounds  
Dissolve by means of a water bath, and strain.

*Cottrean.*

Advised in pulmonary catarrh, too great action of the heart, in one to four ounces during the day.

### DECOCTION OF ASPARAGUS ROOTS.

R. *Asparagus* roots one ounce  
Water two pints

Boil, and strain.

*Radiis.*

To be taken by cupfuls in dropsies.

### DIURETIC MIXTURE.

R. *Asparagus* roots one ounce  
Water one pint

Boil for an hour, strain, and add

Acetate of potassa twenty grains  
Honey of squills half an ounce

*Floy.*

Used as the last, and in the same diseases.

## ASSAFÆTIDA.

### ASSAFÆTIDA.

A gum resin or inspissated juice from an umbelliferous plant, a native of Persia, usually thought to be *Ferula assafetida*, but now shown by *Dr. Falconer* to be a *Nartherx*, which, though similar to *Ferula*, is distinct from it. (*Royle, Mat. Med.* 407.)

*Ser. Syst.* Pentand. digyn. *Nat. Syst.* Apiaceæ.  
*Royle, Mat. Med.* 407. *Griffith, Med. Bot.* 326.

*Assafetida* as found in the shops is in masses of a whitish, reddish, or violet hue, composed of adhering tears. Odor, fetid and alliaceous; taste, bitter and somewhat acid; forms an emulsion with water.

Is stimulant and antispasmodic, and also emmenagogue and anthelmintic. It is used in spasmodic and convulsive diseases, as hysteria, chorea, hooping-cough, flatulent colic, &c.

### ASSAFÆTIDA PILLS.

R. *Assafetida* one ounce and a half  
Soap half an ounce

Beat with water into a mass, and divide into two hundred and forty pills; each of which contains three grains of the gum resin.

*U. S. Ph.*

R. *Assafetida* one drachm and a-half  
Powdered orris root

Mucilage of gum Arabic, each,

sufficient

Beat together, and divide into thirty pills. One to be given occasionally in the hooping-cough of children.

*Kapp.*

R. *Assafetida* a drachm and a-half  
Powdered ginger half a drachm  
Syrup sufficient

Mix, and make thirty pills. Three to be taken every three hours. Have been advised in palsy.

*A. T. Thomson.*

### PILLS OF ASSAFÆTIDA AND LACTUCARIUM.

R. *Assafetida* three drachms  
Lactucarium two scruples and a-half  
Mix, and divide into eighty pills. Two or three every hour in hooping-cough of adults.

*Radiis.*

## PILLS OF ASSAFETIDA AND IRON.

R. Assafetida  
Sulphate of iron  
Extract of chamomile, each,  
half an ounce  
Mix well, and divide into one hundred and eighty pills. Two or more, three or four times a-day, in hypochondria and hysteria. *Syffret.*

R. Black oxide of iron half a drachm  
Assafetida a drachm and a-half  
Oil of tansy ten drops  
Extract of wormwood sufficient  
Mix, and divide into ninety pills. Six to be taken three times a-day. Said to be useful against lumbrici and ascarides. *Phæbus.*

## PILLS OF ASSAFETIDA AND MUSK.

R. Assafetida two drachms  
Musk  
Camphor, each, one drachm  
Ambergris half a drachm  
Beat well together, and divide into one hundred pills. Two to be taken three times a-day. Said to have proved useful in angina pectoris, hysteria, &c. *Sainte Marie.*

## PILLS OF ASSAFETIDA AND OPIUM.

R. Assafetida half an ounce  
Powdered opium  
" ipecacuanha, each,  
four grains  
Oil of peppermint eight drops  
Alcohol sufficient  
Beat well together, and divide into one hundred and twenty pills. Ten to be taken three times a-day in chronic ischuria, consecutive on gonorrhœa. *Radius.*

## ASSAFETIDA MIXTURE.

R. Assafetida two drachms  
Water half a pint  
Rub together, adding the water by degrees, till well mixed. *U. S. Ph.*  
R. Assafetida one drachm  
Sugar six drachms  
Rose water five ounces  
Make an emulsion, and add  
Hoffmann's anodyne thirty drops  
Taken in spoonful doses, in spasmodic asthma, and hysteria. *Bories.*

## ASSAFETIDA MIXTURE.

R. Assafetida half a drachm  
Solution of acetate of ammonia,  
half fl. ounce  
Pennyroyal water three fl. ounces

Mix. One or two spoonfuls in whooping-cough. *Miller.*

R. Assafetida mixture  
five and a-half fl. ounces  
Compound spt. of lavender half fl. ounce  
Aromatic spt. of ammonia two fl. drachms

Mix. Three spoonfuls a day in hysteria. *Ainslie.*

## ASSAFETIDA MIXTURE.

R. Assafetida two ounces  
Opium two grains  
Infusion of chamomile four ounces  
Mix. As an injection in convulsive attacks. *Augustin.*

R. Assafetida half a drachm  
Yolk of egg one

Rub together, and gradually add  
Water eight ounces  
Strain. To form two injections. Said to be useful in the whooping-cough of children. *Soubéiran.*

## MIXTURE OF ASSAFETIDA AND OXYMEL OF SQUILLS.

R. Assafetida one scruple  
Powdered digitalis six grains  
Oxymel of squills two ounces  
Linden-flower water four ounces  
Rub well together. Said to be found useful in the dry cough consequent on deranged menstruation. *Pierquin.*

## MIXTURE OF ASSAFETIDA AND TOLU.

R. Assafetida one drachm  
Water four fl. ounces  
Make an emulsion and add  
Tincture of balsam of tolu half a fl. ounce

" opium forty to fifty drops  
Mix well. A teaspoonful every two hours, in whooping-cough, and a dessert-spoonful or more to an adult. *Ellis.*

## TINCTURE OF ASSAFETIDA.

R. Assafetida four ounces  
Alcohol two pints  
Macerate for fourteen days, and filter. *U. S. Ph.*

Has all the properties of the gum resin, but is more stimulating. Dose, a fl. drachm.

## ALKALINE TINCTURE OF ASSAFETIDA.

R. Assafetida  
Carbonate of potassa, each, two ounces  
Diluted alcohol one pint  
Macerate for three days, by a mild heat and filter. Anti-hysterie, &c. Useful in



nervous disorders. Dose, about twenty drops. *Wirtumberg Dis.*

#### AMMONIATED TINCTURE OF ASSAFETIDA.

R. Ammoniated alcohol sixteen ounces  
Assafetida one ounce

Macerate for twenty-four hours, in a closed vessel, and then distil sixteen ounces.

*Van Mons.*

Stimulant and anti-hysterical. Dose, five to sixty drops.

#### TINCTURE OF ASSAFETIDA AND SOOT.

R. Assafetida one drachm  
Wood soot two drachms  
Alcohol three ounces

Digest for six days, and filter. *Guibourt.*

Highly praised in hysteria, flatulence, and convulsions caused by dentition. Dose, ten to thirty drops in an appropriate vehicle.

#### ASSAFETIDA PLASTER.

R. Assafetida  
Lead plaster, each, one pound  
Galbanum  
Yellow wax, each, half a pound  
Alcohol three pints

Dissolve the assafetida and galbanum in the alcohol, by means of a water-bath; strain while hot, and evaporate to consistence of honey, add lead plaster and wax melted together; stir well, and evaporate to due consistence. *U. S. Ph.*

A good application to the stomach, in hysteria with flatulence, and to the chest in whooping-cough.

#### DEWEES' CARMINATIVE.

R. Carbonate of magnesia half a drachm  
Tincture of assafetida sixty drops  
" opium twenty drops  
Sugar one drachm  
Distilled water one fl. ounce

Mix well. *Dewees.*

Very useful in the flatulent colic, diarrhoea, &c. of infants. Dose, twenty-five drops to a child of two to four weeks old, increasing the dose for those of a more advanced age.

#### PILLS OF ASSAFETIDA AND ALOES.

R. Assafetida  
Powdered aloes  
Soap, each, half an ounce  
Beat with sufficient water to form a mass; divide into one hundred and eighty pills. *U. S. Ph.*

A good purgative in cases of costiveness with flatulence and debility of digestive organs. Dose, ten to five.

#### TINCTURE OF ASSAFETIDA AND CASTOR.

R. Tincture of assafetida  
castor, each, one fl. ounce

Aromatic spirit of ammonia one fl. drachm

Mix. In hysteria, &c. Dose, about a teaspoonful. *Ellis.*

#### COMPOUND ASSAFETIDA MIXTURE.

R. Assafetida one drachm  
Peppermint water three fl. ounces

Make a solution, and add

Ammoniated tincture of valerian two fl. drachms

Tincture of castor three fl. drachms

Sulphuric ether one fl. drachm

Mix. Useful in hysteria, in doses of a tablespoonful, largely diluted, every second hour. *Ellis.*

#### ASSAFETIDA ENEMA.

R. Assafetida one drachm  
Hot water two ounces

Triturate together. In flatulent colic, and against ascarides. *Foy.*

## ATROPIA.

### ATROPINE.

Take recently dried root of belladonna, exhaust it by alcohol, 40° Cartier; add to the tincture a quantity of slaked lime equal to one-twentieth of the weight of the root. After twenty-four hours' contact, filter; acidify slightly with sulphuric acid, and again filter. Two-thirds of the alcohol is then removed by distillation. Evaporate the residue to one-twelfth of the weight of the root employed. Carbonate of potassa is then added until the liquid begins to be rendered opaque by a grayish-brown precipitate, carefully avoiding an excess. The liquid is again filtered, carbonate of potassa added, till it ceases to precipitate, and after twenty-four hours the precipitate is collected on a filter and dried. It is then dissolved in concentrated alcohol, treated with animal charcoal and filtered, evaporated, and crystallized. *Soubiran.*

### SOLUTION OF ATROPIA.

R. Atropia (one, two, or three grains, as the strength may wish to be increased) one grain

Nitric or acetic acid sufficient

Water one fl. ounce

Dissolve.

As an application to the eyes for dilating the pupil.

## AURANTIUM.

### ORANGE.

This fruit is the product of the *Citrus Aurantium*, a native of Asia, but now cultivated in all warm climates; two varieties occur, the one with bitter, the other with sweet fruit; these are considered distinct by Risso.



*Sex. Syst.* Polydelph. icosand. *Nat. Syst.* Aurantiaceae.

*Linn. Sp. Pl.* Griffith, *Med. Bot.* 165.

Almost every part is employed in medicine, but the rind of the fruit of the bitter kind only is officinal in the U. S. Pharm.

## AURANTII CORTEX.

### ORANGE PEEL.

#### POWDER OF ORANGE PEEL AND RHUBARB.

R. Powdered orange peel  
rhubarb

Bitartrate of potassa, each, one ounce  
Mix well. Dose, one or two teaspoonfuls  
a-day. In dyspepsia, with a costive con-  
dition of the bowels. *Radiu.*

#### CONFECTION OF ORANGE PEEL.

R. Fresh orange peel, grated, one pound  
White sugar three pounds  
Beat together, till thoroughly mixed.  
*U. S. Ph.*

As a vehicle or adjunct to powders.

#### ELECTUARY OF ORANGE PEEL.

R. Orange peel half an ounce  
Willow bark two drachms  
Syrup of orange peel sufficient  
Make an electuary. To be taken in  
divided doses, during the apyrexia.

*Phæbus.*

#### TINCTURE OF ORANGE PEEL.

R. Dried orange peel three ounces  
and a-half

Proof spirit, (Imp. meas.,) two pints  
Digest for fourteen days, and filter.

*Lond. Ph.*

Used principally as an addition to infusions,  
decoctions, &c.

#### SPIRIT OF ORANGE PEEL.

R. Orange peel three ounces  
Alcohol sixteen ounces  
Water four ounces  
Digest for four days, and distil sixteen  
parts. *Cottrean.*

Used for the same purposes as the last.

#### ELIXIR OF ORANGE PEEL.

R. Orange peel one ounce  
Cascarilla half an ounce  
Water of citron peel  
wormwood

Alcohol, each, half a pint  
Digest for four days, and filter. *Moscatti.*

Dose, from four to six fl. drachms, as a carmina-  
tive and stomachic.

## INFUSION OF ORANGE PEEL.

R. Orange peel No. 3  
Boiling water three pints

Infuse for half an hour.

## COMPOUND INFUSION OF ORANGE PEEL.

R. Dried orange peel half an ounce  
Fresh lemon peel two drachms  
Bruised cloves one drachm  
Boiling distilled water one pint  
Macerate for a quarter of an hour, and  
strain. *Lond. Ph.*

These two preparations are used as stomachics,  
in doses of one or two fl. ounces.

## SYRUP OF ORANGE PEEL.

R. Bruised orange peel two ounces  
Boiling water one pint  
Macerate for twelve hours, strain, and add  
Sugar two pounds and a-half  
Make syrup. *U. S. Ph.*

Used principally as an agreeable drink mixed  
with water.

R. Recently dried sweet orange  
peel two ounces

Powder, and put in a displacement appa-  
ratus, and pour on it a mixture of two  
parts alcohol, and one of water, until six  
fl. ounces are obtained. Pour this on  
thirty-two ounces (av.) of coarsely pow-  
dered sugar, and spread on paper, until  
the alcohol has evaporated. Then form it  
into a syrup, with sixteen ounces of water,  
merely carrying the heat to the boiling  
point, strain, and bottle whilst hot.

*W. Procter.*

## AURANTII FOLIA.

### ORANGE LEAVES.

#### ELECTUARY OF ORANGE LEAVES.

R. Orange leaves  
Valerian, each, half a drachm  
Syrup of orange peel sufficient  
Make an electuary. *Radiu.*

A teaspoonful occasionally as an antispas-  
modic.

#### JELLY OF ORANGE LEAVES.

R. Orange leaves an ounce and a-half  
Boiling water two pints  
Digest for twenty-four hours, strain, and  
add

Powdered salep two drachms  
Boil to a jelly, and add

Wine  
Syrup of orange flowers, each, one ounce  
In teaspoonful doses, in marasmus.

*Radiu.*



Mix. In frictions on the gums, in the dose of a fifteenth to a tenth of a grain.

*Foy.*

**BOLUS OF CHLORIDE OF GOLD.**

R. Chloride of gold half a grain  
Extract of aconite twelve grains  
Mix, and make six boluses. One to be taken three times a-day. *Brera.*

**PILLS OF CHLORIDE OF GOLD.**

R. Chloride of gold ten grains  
Powdered liquorice three drachms  
Syrup sufficient  
Mix, and make one hundred and fifty pills. One, thrice a-day. *Ellis.*

**TINCTURE OF CHLORIDE OF GOLD.**

R. Leaf gold one drachm  
Nitro-muriatic acid one ounce  
Dissolve, and add  
Oil of rosemary two ounces  
Alcohol eight ounces  
Mix. Dose, ten drops. *Spielmann.*

**CAUSTIC OF CHLORIDE OF GOLD.**

R. Chloride of gold one ounce  
Nitro-muriatic acid one fl. ounce  
Mix. Used as a caustic to the surface of cancerous ulcers, applied by means of a dossil of lint. *Recamier.*

**COLLYRIUM OF CHLORIDE OF GOLD.**

R. Chloride of gold two grains  
Distilled water six fl. ounces  
Dissolve. As a collyrium in ophthalmia. *Jahn.*

**OINTMENT OF CHLORIDE OF GOLD.**

R. Chloride of gold eight grains  
Lard half an ounce  
Mix. To relieve rheumatic pains. *Legrand.*

**AURI ET SODII CHLORIDUM.**

**CHLORIDE OF GOLD AND SODIUM.**

R. Chloride of gold eighty-five parts  
Chloride of sodium sixteen parts  
Dissolve in a small quantity of water, evaporate to a pellicle, and let crystallize. *Par. Cod.*

R. Leaf gold four parts  
Nitro-muriatic acid sufficient  
to dissolve, evaporate to dryness, add  
Chloride of sodium one part  
Water thirty-two parts  
Evaporate to one-half, and set aside to crystallize. *Fiquier.*

**POWDER OF CHLORIDE OF GOLD AND SODIUM.**

R. Chloride of gold and sodium one part

**Lycopodium**

two parts

Mix.

*Cadet.*

R. Chloride of gold and sodium one part  
Sugar of milk sixteen parts  
Mix. *Radius.*

R. Chloride of gold and sodium three parts  
Powdered orris root nine parts

Mix. Three grains contain about three-fourths of a grain of the chloride, and are used for thirty frictions, for the weakest doses, and three for the strongest. *Legrand.*

**PILLS OF CHLORIDE OF GOLD AND SODIUM.**

R. Chloride of gold and sodium ten grains  
Potato starch four grains  
Gum Arabic  
Distilled water, each, one drachm  
Mix, and make one hundred and twenty pills. Each contains one-twelfth of a grain of chloride. *Soubeiran.*

R. Chloride of gold and sodium four grains  
Extract of bitter sweet one drachm  
aconite ten grains

Powdered marsh mallow  
Distilled water, each, sufficient  
Mix, and make eighty pills. Dose, three thrice a-day, in dropsy, incontinence of urine, amaurosis, &c. *Groetzner.*

R. Chloride of gold and sodium one grain  
Extract of mezercon one drachm  
Mix, and make sixty pills. *Magendie.*

**LOZENGES OF CHLORIDE OF GOLD AND SODIUM.**

R. Chloride of gold and sodium five grains  
Powdered sugar one ounce  
Mucilage of tragacanth sufficient  
Rub the chloride in a glass mortar with the sugar, add the mucilage, and make sixty lozenges. *Soubeiran.*

**SOLUTION OF CHLORIDE OF GOLD AND SODIUM.**

R. Chloride of gold and sodium two grains  
Distilled water one ounce  
Dissolve. Ten drops, every two hours, in dropsy and incontinence of urine. *Radius.*

**SYRUP OF CHLORIDE OF GOLD AND SODIUM.**

R. Chloride of gold and sodium one grain  
Syrup six ounces  
Dissolve. Dose, from one ounce to two. *Bories.*



COMPOUND SYRUP OF CHLORIDE OF GOLD  
AND SODIUM.

R. Peruvian bark  
Gentian, each, three ounces  
Mezereon one ounce and a-half  
Foxglove two drachms and a-half  
Water one pint and a-half

Boil down to one pint, and pour the boiling decoction on

Bitter orange peel one ounce  
Cloves half an ounce

After a sufficient infusion, strain, and add Chloride of gold and sodium four grains

A spoonful, night and morning. *Borics.*

OINTMENT OF CHLORIDE OF GOLD AND  
SODIUM.

R. Chloride of gold and sodium one scruple  
Lard one ounce

Mix well. *Foy.*

R. Chloride of gold and sodium three to four grains  
Lard half an ounce

Mix thoroughly. *Groetzner.*

## AURI CYANIDUM.

## CYANIDE OF GOLD.

R. Leaf gold one part  
Nitro-muriatic acid six parts  
Dissolve, and evaporate to dryness. Dissolve in

Distilled water eight parts

Reduce on a water-bath to one-fourth, and add very gradually

Cyanide of potassium half a part

Distilled water twenty-four parts

Agitate, let rest, and separate the cyanide. *Soubeyran.*

R. Fresh precipitated oxide of gold (washed, but not dried) at will

Diluted hydrocyanic acid sufficient

Boil till solution assumes a beautiful yellow tint, evaporate to dryness on a water-bath. *Desfosses.*

Dose, from eighteenth to tenth of a grain.

## POWDER OF CYANIDE OF GOLD.

R. Cyanide of gold one grain  
Lycopodium fifteen grains

Mix, and divide into sixteen powders. One every day, as friction on the gums and tongue. *Radiis.*

## PILLS OF CYANIDE OF GOLD.

R. Cyanide of gold one grain  
Powdered liquorice thirty-one grains  
Mucilage sufficient

Mix, and make sixteen pills. *Radiis.*

R. Cyanide of gold one grain  
Extract of mezereon three grains  
Powdered marsh mallow sufficient

Mix, and make five grain pills.

## LOZENGES OF CYANIDE OF GOLD.

R. Cyanide of gold one grain  
Chocolate sufficient  
to make sixteen lozenges. *Soubeyran.*

## SOLUTION OF CYANIDE OF GOLD.

R. Cyanide of gold three grains  
Diluted alcohol eight fl. ounces

A teaspoonful, twice a-day, gradually increasing the dose. *Christien.*

## AURI IODIDUM.

## IODIDE OF GOLD.

R. Solution chloride of gold at will  
Iodide of potassium sufficient  
to precipitate, wash the precipitate with alcohol, and dry it. *Par. Cod.*

R. Solution chloride of gold at will  
hydriodate of ammonia sufficient  
to precipitate. Wash with alcohol, and dry. *Miellot.*

Used like the other preparations, and in the same doses.

## AURI OXIDUM.

## OXIDE OF GOLD.

R. Pure gold one part  
Mercury six parts

Make an amalgam; triturate with double the weight of sulphur and calceine. *Wurt. Ph.*

R. Leaf gold half an ounce  
Nitric ten ounces

Common salt five ounces

Alum eight ounces

Triturate to extinction, dissolve in lime-water, precipitate by solution of potassa; wash the precipitate, and calceine. *Spillmann.*

R. Chloride of gold one part  
Distilled water forty parts

Dissolve, and add Fresh calcined magnesia four parts

Boil; wash the precipitate with distilled water, then with nitric acid diluted with twenty parts of water, and again with water. Dry in the shade. *Par. Cod.*

Dose, from a tenth to three-fourths of a grain.

## POWDER OF OXIDE OF GOLD.

R. Oxide of gold two drachms



Sulphuret of antimony half an ounce  
 Oil of cinnamon eight drops  
 Triturate together. *Spielmann.*  
 R. Oxide of gold four scruples  
 Prepared hartshorn one ounce  
 Triturate together. Used in malignant  
 fevers and small-pox. *Spielmann.*

## PILLS OF OXIDE OF GOLD.

R. Oxide of gold five grains  
 Extract of mezereon two drachms  
 Mix, and make sixty pills. *Magendie.*

## AURUM AMMONIATUM.

## AMMONIATED GOLD.

R. Gold leaf two drachms  
 Nitro-muriatic acid one ounce  
 Dissolve, and add  
 Water of ammonia sufficient  
 to precipitate. Wash and dry, with great  
 caution. *Niemann.*

This is what is termed fulminating gold, and  
 explodes at 400°. It has been used in fevers,  
 &c., as a diaphoretic, but has produced unpleasant  
 consequences.

## PILLS OF AMMONIATED GOLD.

R. Ammoniated gold  
 Calomel  
 Extract of squill, each, half a drachm  
 Powdered rhubarb two drachms  
 Conserve of juniper sufficient.  
 Mix, and make pills of two grains. *Plenck.*

## AURUM STANNO PARATUM.

## PURPLE OF CASSIUS.

R. Chloride of gold one part  
 Distilled water two hundred parts  
 Add to this solution, very gradually,  
 Pure tin one part  
 Nitro-muriatic acid three parts  
 Dissolve without heat, and add  
 Distilled water one hundred parts  
 as long as any precipitate falls. Wash this  
 and dry by a gentle heat. *Par. Cod.*

This is used like the other preparations of gold.

## AVENA SATIVA.

## OAT.

The common oat, although generally cultivated  
 from a very early age, is not known in a wild  
 state.

*Sex. Syst.* Triand. digyn. *Nat. Syst.* Gramin-  
 aceæ.

Linn. Sp. Pl. 61. Griffith, Med. Bot. 662.

Though, for the most part, used as food for

horses, it contains much nutritive matter, and  
 forms an important article of diet in some parts  
 of Europe. It is also employed in medicine as  
 a bland, nutritious, and somewhat laxative nutri-  
 ment in inflammatory diseases. When merely  
 freed from their husk and coarsely broken, they  
 are called groats.

## GROAT GRUEL.

R. Groats three ounces  
 Wash well in cold water, and then put into  
 Fresh water four pints  
 Boil slowly to one half, strain through a  
 fine sieve. *A. T. Thomson.*

R. Groats five drachms  
 Liquorice root three drachms  
 Boil the groats in sufficient water, to have  
 one quart of decoction, add the liquorice,  
 and after a sufficient infusion, strain.

*Cottreanu.*

## OATMEAL GRUEL.

R. Oatmeal two ounces  
 River water one pint and a-half  
 Rub the meal in a basin, with the back of  
 a spoon, in some of the water, pouring off  
 the fluid after the grosser particles have  
 subsided, but whilst the milkiness remains,  
 repeat this with fresh water. Stir well,  
 and unite the washings, and boil until a  
 soft, thick mucilage is formed.

*A. T. Thomson.*

Both these preparations may be flavored ac-  
 cording to circumstances.

## COMPOUND DECOCTION OF OATMEAL.

R. Groats six ounces  
 Red sanders, chipped, one ounce  
 Chicory root one ounce and a-half  
 Water twelve pints  
 Boil down one-third, and add to the strained  
 decoction  
 Nitre half an ounce  
 Sugar two ounces  
 Dissolve. Advised in gout, nephritis, &c.,  
 to be taken hot or tepid, morning and even-  
 ing for some weeks, in doses of six or eight  
 fl. ounces. *Wurt. Ph.*

## FLUMMERY OF OATMEAL.

R. Oatmeal or groats a quart  
 Rub for a considerable time with two  
 quarts of hot water, and let the mixture  
 stand till it becomes sour, then add another  
 quart of hot water, and strain through a  
 hair sieve. Let stand till a white sediment  
 is deposited, decant the fluid, and wash the  
 sediment with cold water. This is now to  
 be boiled with fresh water, till it forms a  
 mucilage, stirring the whole time. It is a  
 very light and somewhat nutritious food,  
 during early convalescence.

*A. T. Thomson.*



Mix, and divide into forty-eight powders.  
Dose, two a-day in syrup, in eutaneous affections. *Swediaur.*

## PILLS OF CHLORIDE OF BARIUM.

R. Chloride of barium  
Extract of liquorice, each,  
half a draehm

Powdered liquorice root

Water, each, sufficient

Mix, and divide into one hundred and twenty pills. *Phæbus.*

Dose, four to eight, three or four times a-day.

R. Chloride of barium one draehm  
Resin of guaiacum half an ounce  
Conserve of fumitory sufficient  
Mix, and make one hundred eighty-eight pills. One to be taken morning and evening, increased to two, against tapeworm. *Pierquin.*

## SOLUTION OF CHLORIDE OF BARIUM.

R. Chloride of barium one ounce  
Distilled water three fl. ounces  
Dissolve, and filter. *U. S. Ph.*

Has been used in small doses in cancer and scrofula. Dose, five drops, two or three times a-day, cautiously increasing.

## COLLYRIUM OF CHLORIDE OF BARIUM.

R. Chloride of barium ten grains  
Distilled water one ounce  
Dissolve, filter, and add  
Mucilage of quince seeds two drachms  
Wine of opium half a draehm  
*Radiis.*

The eyelids are to be washed several times a-day with this, in scrofulous ophthalmia.

## MIXTURE OF CHLORIDE OF BARIUM.

R. Chloride of barium  
iron, each, half a draehm  
Distilled water one ounce  
Dissolve *Augustin.*

Dose, twenty to sixty drops.

R. Chloride of barium  
Extract of cicuta, each, half a draehm  
Distilled water half an ounce  
Antimonial wine one draehm and a-half  
*Phorbus.*

Dose, fifteen to twenty drops every three hours, in chronic orchitis.

R. Chloride of barium one draehm  
Balm water seven fl. drachms  
Antimonial wine one fl. draehm

Dose, twenty to thirty drops four times a-day. *Hufeland.*

R. Chloride of barium four grains  
Distilled water two fl. ounces

Extract of hemlock four grains  
Common emulsion one pound  
Syrup one ounce

Mix. To be taken during the day, in serofula, and serofulous phthisis. *Brera.*

## BARI IODIDUM.

## IODIDE OF BARIUM.

R. Iodine one hundred parts  
Iron filings thirty parts  
Water sufficient

Prepare an iodide of iron, add baryta dissolved in twenty parts of water, as long as a precipitate is formed, heat a moment, filter, evaporate, and crystallize.

*Magendie.*

Been used with success in scrofula. Dose,  $\frac{1}{2}$  of a grain, three times a-day, cautiously increasing.

## POWDER OF IODIDE OF BARIUM.

R. Iodide of barium one grain  
Powdered cinnamon  
Sugar, each, four scruples  
Mix well, and divide into eight powders.  
One to be given two or three times a-day in scrofula. *Radiis.*

## OINTMENT OF IODIDE OF BARIUM.

R. Iodide of barium four grains  
Lard one ounce  
Mix. As a frietion in scrofulous swellings. *Bielt.*

## BARI SULPHURETUM.

## SULPHURET OF BARIUM.

R. Sulphate of barytes eleven parts  
Charecoal one part  
Oil of turpentine sufficient  
Triturate the barytes with the coal, moisten the mixture with the turpentine, and heat the whole in a crucible to redness; let cool, and preserve. *Van Mons.*

## BARYTA.

## BARYTES.

R. Nitrate of barytes sufficient  
Mix in a platina crueible to a red heat, when the mass has become solid and porous, raise to a white heat, remove from fire, and cool. *Van Mons.*

## SOLUTION OF BARYTES.

R. Barytes one part  
Distilled water twenty parts  
Dissolve. *Van Mons.*



Has been recommended in scrofula, in doses of four to five drops, in some appropriate vehicle.

#### BARYTIC LINIMENT.

R. Solution of barytes                      one part  
Olive oil                                      six parts  
Rub together.                              *Soubièran.*

Advised as an external application in lepra, and other obstinate cutaneous diseases.

### BARYTÆ ACETAS.

#### ACETATE OF BARYTES.

R. Carbonate of barytes                      at will  
Acetic acid                                      sufficient  
to saturate; filter, evaporate, and crystallize.                              *Van Mons.*

#### SOLUTION OF ACETATE OF BARYTES.

R. Acetate of barytes                      one part  
Distilled water                              nine parts  
Dissolve, and filter. In same cases and doses as the solution of barytes.                              *Hamb. Ph.*

### BEBEERINA.

#### BEBEERINE.

This is an alkaloid obtained from the bark of a tree, growing in British Guiana. It is said to belong to the genus *Nectandra*, and has been named *N. raddei*. The bark is in flat pieces, smooth, grayish, hard, heavy, and brittle, with but little odor, though of a very bitter taste. Bebeerine is extracted from this bark in the form of a sulphate, by a process similar to that used to obtain sulphate of quinia. In this form it contains both bebeerine and siperina, and is in thin, somewhat glittering scales of a brownish-yellow color, forming a yellow powder, soluble in cold water, but often forming a turbid solution, which is rendered clear by a few drops of diluted sulphuric acid. Pure bebeerine can be obtained from it as follows:—

Decompose by ammonia, wash the precipitate, and whilst moist, triturate with moist hydrated oxide of lead; dry on a water-bath, exhaust with alcohol, and distil off the spirit, treat the residue with ether; on the evaporation of the ether, bebeerine will be left of a bright Canary yellow color, but in powder appears nearly white.

Dose of the sulphate is one to three grains as a tonic, and five grains to a scruple as a febrifuge.

It is not equal to quinine as an antiperiodic, but is a good substitute for that article.

#### PILLS OF SULPHATE OF BEBEERINE.

R. Sulphate of bebeerine                      two drachms  
Conserve of roses                              sufficient  
Mix, and form twenty-four pills—one to three, thrice a-day in intermittent fevers.                              *Christison.*

#### SOLUTION OF SULPHATE OF BEBEERINE.

R. Sulphate of bebeerine                      half a drachm  
Diluted sulphuric acid                      twenty-five minims

#### Syrup

Tincture of orange peel, each,                      one ounce

Water                                      four ounces

Mix. A tablespoonful three times a-day.                              *Christison.*

### BECCABUNGA.

#### BROOKLINE.

Two species of *Veronica* of similar properties are included under this name, the *V. beccabunga* and *V. anagallis*; they are both semi-aquatic plants indigenous to Europe and to this country. *Sex. Syst.* Diand. monog. *Nat. Syst.* Scrophulariaceæ.

These plants are employed usually in a fresh state, and considered to be antiscorbutic and alterative. They are usually given in infusion made with one or two handfuls of the herb to a pint of boiling water. They have also been employed in conserve, syrup, &c.

#### WATER OF BROOKLINE.

R. Brookline                                      two parts  
Water, each,                                      two parts  
Distil off one part.                              *Cottereau.*  
Dose, one to four ounces.

#### SYRUP OF BROOKLINE.

R. Clarified juice of brookline                      one part  
Sugar                                      two parts  
Dissolve, by means of a water-bath.                              *Taddei.*

### BELLADONNA.

#### BELLADONNA.

This is the *Atropa Belladonna*, an herbaceous plant, native of Europe, and cultivated in some places in the United States.

*Sex. Syst.* Pentand. monog. *Nat. Syst.* Solanaceæ.

Linn. Sp. Pl. 260, Griffith, Med. Bot. 486.

The whole plant is officinal in some Pharmacopæias, but the leaves only are ordered in that of the U. S. This plant is a powerful narcotic, owing to the presence of a peculiar principle called *Atropia*. It has been used in a variety of diseases as an anodyne, antispasmodic, and discentient. The dose of the powdered leaves is one to two grains, daily or twice a-day, gradually increasing.

#### POWDER OF BELLADONNA.

R. Powdered belladonna root                      three grains  
    ipecacuanha                      two grains  
Oxide of zinc                                      six grains  
Sugar                                      one drachm  
Rub together, and divide into six powders. One every two hours in epilepsy.                              *Radiis.*



R. Powdered belladonna root two grains  
 ipecacuanha one grain  
 Washed sulphur thirty-two grains  
 Sugar of milk two drachms  
 Rub well together, divide into twenty powders. One every three hours in whooping-cough. *Phabus.*

R. Powdered belladonna one grain  
 nitrate of potassa twenty-one grains  
 sugar nine grains

Make a powder, to be taken at bedtime.

In chronic rheumatism, extensive ulcerations, mania, epilepsy. *A. T. Thomson.*

R. Powdered root of belladonna  
 ipecacuanha, each, six grains

liquorice root  
 sugar, each, half a drachm

Precipitated sulphur two scruples

Oil of anise  
 amber, each, three minims

Mix, and make five to twenty powders.

*A. T. Thomson.*

R. Powdered leaves of belladonna one to three grains

Musk  
 Camphor, each, five grains  
 Sugar thirty grains

Triturate well together, and divide into eight powders. *A. T. Thomson.*

POWDER OF BELLADONNA AND RHUBARB.

R. Powdered belladonna leaves ten grains  
 rhubarb two scruples

Mix, and divide into ten powders. One, two, or three times a-day, in obstructions of the liver and spleen. *Radius.*

OPIATED BELLADONNA LEAVES.

R. Belladonna leaves  
 Water, each, two ounces

Extract of opium one drachm

Dissolve the opium in the water, wash the leaves with the solution, and dry them by a gentle heat. *Guibourt.*

Said to be very useful in phthisis, the patient to smoke a pinch every morning in a common pipe.

FUMIGATION OF BELLADONNA.

R. Powdered belladonna one drachm  
 Boiling infusion of sage one quart

The steam to be inhaled. Said to be useful in whooping-cough and phthisis.

*Soubeyran.*

EXTRACT OF BELLADONNA.

R. Belladonna leaves one pound  
 Bruise in a stone mortar, with the addition of a little water; express the juice, heat to

boiling point, strain, and evaporate to proper consistence. *U. S. Ph.*

Dose, one grain night and morning, to be gradually increased.

ALCOHOLIC EXTRACT OF BELLADONNA.

R. Belladonna leaves one pound  
 Diluted alcohol four pints

Moisten the leaves with half a pint of alcohol, let stand for twenty-four hours, put in a displacement apparatus, add gradually the remainder of alcohol. When this has penetrated the belladonna, add water occasionally so as to keep the powder covered. Stop the process when the liquid that passes forms a precipitate in what has already passed. Distil off alcohol, and evaporate to proper consistence. *U. S. Ph.*

Dose, half a grain to a grain, to be gradually increased.

COMPOUND BELLADONNA PILLS.

R. Extract of belladonna

Blue pill

Powdered ipecacuanha, each, twelve grains

Mix, and make twelve pills. One to be taken morning and evening, in cancerous affections. *Ainslie.*

SOLUTION OF EXTRACT OF BELLADONNA.

R. Extract of belladonna three grains  
 Cinnamon water one fl. ounce

Make a solution. Dose, for a child under one year, two or three drops twice or thrice a day, and an additional drop for each additional year. *Ellis.*

Said to have proved efficacious as a preventive of scarlatina.

SYRUP OF BELLADONNA.

R. Extract of belladonna forty-eight grains  
 Distilled water two ounces

Dissolve and filter, then add

Syrup three pounds

Boil, and strain. *Cottrean.*

Said to be useful in whooping-cough, in doses of one to three drachms.

GILLET'S SYRUP OF BELLADONNA.

R. Dried belladonna leaves one ounce  
 Digitalis

Common nightshade, each, one drachm

Water ten fl. ounces

Digest for two days, and filter, then add

Syrup two pounds

*Cadet.*

Advised in whooping-cough, in the dose of a teaspoonful every hour or two.

TINCTURE OF BELLADONNA.

R. Belladonna leaves four ounces

Diluted alcohol two pints

Macerate for fourteen days, express, and filter.

*U. S. Ph.*

The dose is from fifteen to thirty drops.

#### ETHEREAL TINCTURE OF BELLADONNA.

R. Belladonna leaves dried one part  
Sulphuric ether eight parts  
Macerate for eight days, and filter.

*Guibourt.*

#### BELLADONNA MIXTURE.

R. Extract of bella-  
donna eight to twelve grains  
Wine of ipecacuanha one fl. drachm  
Syrup of seneka half fl. ounce  
tolu three and a half fl. ounces

Mix. Advised in catarrh, in the dose of a teaspoonful, three or four times a-day, using also gum water acidulated with lemon-juice.

*Ellis.*

R. Extract of belladonna fifteen grains  
Fennel water five fl. ounces  
Alcohol one fl. drachm

Dissolve. Dose, a drop for every year of the age of a child, not to exceed fifteen; as a preventive of scarlatina.

*Maisier.*

#### LINIMENT OF BELLADONNA.

R. Extract of belladonna two scruples  
Sulphuric ether one drachm  
Cherry laurel water two ounces  
As a friction to the abdomen in colica pic-  
tonum.

*Phæbus.*

#### CLYSTER OF BELLADONNA.

R. Belladonna  
leaves twelve to twenty grains  
Jalap one scruple  
Boiling water half a pint  
Infuse, and strain.

*Pitschaft.*

This has been recommended in strangulated hernia, to overcome spasm.

#### PLASTER OF BELLADONNA.

R. Resin plaster three ounces  
Extract of bella-  
donna one ounce and a-half  
Melt plaster by means of water-bath, and add the extract; mix well.

*U. S. Ph.*

An efficacious application in neuralgic and rheumatic pains.

#### OINTMENT OF BELLADONNA.

R. Extract of belladonna two drachms  
Distilled water two fl. ounces  
Lard two ounces  
Rub well together. Used by Chaussier as an application to the neck of the uterus in cases of rigidity.

*Ratier.*

R. Fresh belladonna leaves one part  
Lard two parts

Simmer together, express, and strain. Used in frictions of one or two drachms, to indolent tumours.

*Soubciran.*

## BENZOINUM.

### BENZOIN.

Is the concrete juice of the *Styrax Benzoïn*, a tree of some size, native of several of the East Indian islands.

*Ser. Syst.* Decand monog. *Nat. Syst.* Styracaceæ.

Dryander, Ph. Ti. lxxvii. 308. Griffith, Med. Bot. 439.

There are several varieties of benzoïn, but the best is in whitish tears, united by a reddish-brown connecting medium. It has an aromatic, agreeable odor, and a somewhat acid taste. It is stimulant and expectorant, and is much used in chronic catarrhs.

### BENZOATED LARD.

R. Benzoïn in coarse powder one ounce  
Lard twenty-five ounces  
Heat them together in a water-bath for two or three hours, strain without pressure, and stir while cooling.

Employed for ointments to be long kept, to prevent them from becoming rancid.

*Deschamps.*

### FUMIGATING POWDER.

R. Powdered olibanum two pounds  
benzoïn  
storax, each, half a pound  
dried roses  
lavender

flowers, each, six ounces

Mix. A small quantity to be thrown on hot coals, to raise a smoke; to be inhaled in hooping-cough, &c.

*Dohrn.*

### FUMIGATING PASTILLES.

R. Benzoïn ten parts  
Charcoal twenty-four parts  
Nitrate of potassa one part  
Sassafras two parts  
Mucilage of gum Arabic sufficient  
To make pastilles, which are to be conical.

*Beral.*

R. Benzoïn sixteen parts  
Sandal wood four parts  
Ladanum one part  
Balsam of tolu four parts  
Charcoal forty-eight parts  
Nitrate of potassa two parts  
Mucilage of tragacanth sufficient  
Make conical pastilles.

*Foy.*

### POWDER OF BENZOIN.

R. Powdered benzoïn  
sugar candy equal parts

Mix. Said to be useful with camphor water in asthma and chronic catarrh. *Pierquin.*

## OIL OF BENZOIN.

R. Benzoïn at will  
Water a small quantity  
Distil on a sand-bath, and separate the oil that passes over.  
Advised as a friction in neuralgic and rheumatic pains. *Swedliaur.*

## COSMETIC WASH OF BENZOIN.

R. Tincture of benzoïn three drachms  
Liquid subcarbonate of potassa two drachms  
Rose water eight ounces  
Mix. As a lotion in acne. *Augustin.*

## COSMETIC EMULSION OF BENZOIN.

R. Almond paste two drachms  
Rose water eight ounces  
Make an emulsion, and add  
Tincture of benzoïn three drachms  
*Schubarth.*

## MILK OF ROSES.

R. Tincture of benzoïn one drachm  
Rose water one pint  
Mix. *Taddei.*  
R. Tincture of benzoïn one drachm  
balsam of Peru twenty drops  
Rose water one pint  
Mix. *Giannini.*

Both these are used as cosmetic washes.

## LOTION FOR BURNS.

R. Benzoïn six drachms  
Storax four drachms  
Balsam tolu two drachms  
Aloes one drachm  
Alcohol eight fl. ounces

Make a tincture, to be used as a lotion for burns and scalds, before vesication has taken place.

## TINCTURE OF BENZOIN.

R. Benzoïn one part  
Alcohol eight parts  
Digest for some days, and filter. *Guibourt.*

Used as a stomachic carminative, &c., in doses of ten to twenty drops.

## COMPOUND TINCTURE OF BENZOIN.

R. Benzoïn three ounces  
Purified storax two ounces  
Balsam tolu one ounce  
Powdered aloes half an ounce  
Alcohol two pints

Macerate for fourteen days, and filter. *U. S. Ph.*

A stimulating expectorant, and also used as an application to indolent ulcers.

## TURLINGTON'S BALSAM.

R. Benzoïn twelve ounces  
Liquid storax fourteen ounces  
Balsam of Peru two ounces  
Myrrh  
Aloes, each, one ounce  
Balsam of tolu  
Extract of liquorice, each, four ounces  
Angelica root half an ounce  
Alcohol eight pints

Digest for ten days, and strain.

*Phil. Coll. Pharm.*

## BERBERIS.

## BARBERRY.

One species of this genus, *B. vulgaris*, has been employed in medicine in Europe. It is a native of Europe, but is naturalized in some parts of the U. S.

*Sec. Syst. Hexand. monog. Nat. Syst. Berberidaceæ.*

Torrey and Gray, Fl. i. 49. Griffith, Med. Bot. 112.

The parts used are principally the berries, which are acidulous, and form a substitute for tamarinds, in the preparation of cooling drinks. The bark of the root is bitter and astringent, and is useful in the treatment of aphthous sore mouth, and was at one time much esteemed in the treatment of jaundice.

## LEMONADE OF BARBERIES.

R. Juice of berries one part  
Sweetened water fifteen parts  
Mix. As a refreshing drink in fevers.

*Beral.*

## BISMUTHUM.

## BISMUTH.

## BISMUTHI SUBNITRAS.

## SUBNITRATE OF BISMUTH.

R. Purified bismuth one ounce  
Nitric acid one fl. ounce and a-half  
Diluted water sufficient

Mix one fl. ounce of water with the acid, and dissolve the bismuth in the mixture; when action has terminated, pour clear solution into three pints of the water, and permit precipitate to subside; pour off supernatant fluid, wash the precipitate well, and dry it by a gentle heat. *U. S. Ph.*

Used as a tonic and antispasmodic, especially in certain painful affections of the stomach. Dose, five grains, twice or thrice a-day, gradually increasing the quantity.

## COMPOUND BISMUTH POWDER.

R. Subnitrate of bismuth twelve grains  
Powdered ipecacuanha two grains  
Carbonate of magnesia two drachms



Mix, and form twelve powders. One, two or three times a-day, in gastrodynia.

*Clarus.*

R. Subnitrate of bismuth eight grains  
Opium one grain  
Sugar two drachms

Mix, and form four powders. *Ammon.*

Much praised by the author, in cholera; one powder to be taken every two hours.

#### PILLS OF SUBNITRATE OF BISMUTH.

R. Subnitrate of bismuth one drachm  
Mucilage of gum Arabic sufficient

Mix, and make thirty pills. One to be given every two hours in dyspepsia. *Ellis.*

#### SUBNITRATE OF BISMUTH OINTMENT.

R. Subnitrate of bismuth one part  
Lard three parts

Rub well together. Said to be useful in psora, and other cutaneous eruptions.

*Kerksig.*

### BISTORTA.

#### BISTORT.

This is the root of the *Polygonum Bistorta*, a native of Europe, and also found in the northern parts of this country, growing in wet situations.

*Sex. Syst.* Octand. trigyn. *Nat. Syst.* Polygonaceæ.

*Linn. Sp. Pl.* 516. *Lindley, Fl. Med.* 361.

The part employed, is the root; this is bitter and austere, especially in a fresh state. It is a powerful astringent, but is seldom used in this country. The dose of the powder is twenty or thirty grains, three or four times a-day.

#### INFUSION OF BISTORT.

R. Bistort one ounce  
Boiling water two pints  
Infuse for two hours, and strain. Recommended in passive hemorrhages. *Radiis.*

#### ASTRINGENT CLYSTER.

R. Bistort one ounce  
Poppy heads two drachms  
Water one pint  
Infuse, and strain. As an injection, in diarrhoea and chronic dysentery.

*Guilbourt.*

### BOLETUS LARICIS.

#### WHITE AGARIC.

A parasitic fungus growing on the trunk of the larch, in many parts of Europe. It is destitute of smell, but the taste, at first vapid and farinaceous, becomes bitter, acrid, and nauseous. Formerly much used as a purgative, in doses of half a drachm to a drachm. It has lately been thought to be very efficacious in arresting the colliquative sweats in phthisis.

#### POWDER OF AGARIC.

R. Powdered agaric twelve grains  
White sugar two drachms  
Mix well, and divide into six powders.  
One to be given at night, against colliquative sweats. *Radiis.*

#### POWDER OF AGARIC AND OPIUM.

R. Powdered agaric eighteen grains  
Opium three grains  
gum Arabic two drachms  
Mix, and divide into nine powders. One to be given at night, against colliquative sweats. *Radiis.*

#### PILLS OF AGARIC AND OPIUM.

R. Powdered agaric fifteen grains  
Extract of opium two grains and a-half  
Mix, and form six pills. One or two at bedtime, in same cases as above noticed. *Ray.*

### BROMINUM.

#### BROMINE.

This elementary substance has much analogy to iodine in its chemical characters, and in its action on the system. It is a dark red, volatile liquid, having a very caustic taste and a disagreeable odor. It has been employed in bronchocele, serofula, chronic cutaneous diseases, and hypertrophy of the heart.

#### SOLUTION OF BROMINE.

R. Bromine one part  
Distilled water forty parts  
Mix. Dose, six drops several times a-day, gradually increasing the dose. *Pourché.*

#### ALCOHOLIC SOLUTION OF BROMINE.

R. Bromine ten drops  
Alcohol one ounce  
Mix. As an external application. The strength to be increased five drops to the ounce, daily. *Founet.*

#### LOTION OF BROMINE.

R. Bromine twenty to thirty drops  
Water one pint  
Mix. For serofulous ulcers. *Glover.*  
R. Bromine four fl. drachms  
Water five fl. ounces  
Mix. *Pourché.*

### BRUCIA.

#### BRUCINE.

R. Powdered false *Angustura* bark, at will.  
Treat it three times with water acidulated with muriatic acid, mix the liquids, evaporate, add milk of lime, wash the precipitate, dry, and treat it with alcohol; eva-



porate this, combine the residue with sulphuric acid, dissolve the salt in water, treat with animal charcoal, crystallize, redissolve in water, and precipitate by means of ammonia. *Cottrean.*

A highly poisonous alkaloid, obtained from the bark of the *strychnos nux vomica*, or false Angustura bark. It is white, very bitter, and readily soluble in alcohol, but with difficulty in water. Acts on the system like strychnia, but with less energy, and has been given in same class of diseases.

## PILLS OF BRUCIA.

R. Brucia twelve grains  
Conserve of roses half a drachm  
Mix, and divide into twenty-four pills. One to be given morning and evening, gradually increasing the dose. *Foy.*

## SOLUTION OF BRUCIA.

R. Brucia six grains  
Distilled water four fl. ounces  
Sugar two drachms  
Mix. A tablespoonful, morning and evening. *Magendie.*

## TINCTURE OF BRUCIA.

R. Brucia eighteen grains  
Alcohol (0.847) one ounce  
Dissolve. Six to twenty-four drops in some demulcent drink. *Soubiran.*

## BRUCIÆ ACETAS. MURIAS ET SULPHAS.

## ACETATE, MURIATE, AND SULPHATE OF BRUCINE.

These are all made by the same process, using for each the appropriate acids.

R. Brucine at will  
Acetic acid sufficient  
Put the brucine in a porcelain capsule on a water-bath; pour a small quantity of water on it, and then add the acid very gradually, constantly stirring till perfect saturation takes place; filter, evaporate to one-half, and then crystallize. *Cottrean.*

## BRYONIA.

## BRYONY.

The roots of two species of bryony are used

in medicine, the *B. alba*, and *B. dioica*, the first in England, the latter in other parts of Europe, but are identical in their sensible properties and action on the system.

*Sex. Syst.* Monœc. syngen. *Nat. Syst.* Cucurbitaceæ.

*Linn. Sp. Pl.* 621. *Griffith, Med. Bot.* 311.

The part used is the root; this is acrid and purgative, causing copious, watery stools; in doses of ten grains to two scruples. It has also some reputation as a cataplasm.

## CATAPLASM OF BRYONY.

R. Juice of bryony root  
Crumb of bread, each, sufficient  
to form a cataplasm. Used as an application to engorged glands of the neck. *Barthez.*

## COMPOUND CATAPLASM OF BRYONY.

R. Rased bryony root three ounces  
Contused elder bark one ounce  
Gum ammoniac half an ounce  
Muriate of ammonia two drachms  
Oil of cicuta two ounces  
Vinegar sufficient  
Mix, and heat. An application to scrofulous tumors. *Plenck.*

## WINE OF BRYONY.

R. Bryony root one ounce  
White wine one pint  
Boil gently, and filter. To be taken in wineglassfuls, in dropsies. *Hufeland.*

## BUXUS.

## Box.

The box is a shrub or small tree, native of the south of Europe, but now generally cultivated in this country.

*Sex. Syst.* Monœc. triand. *Nat. Syst.* Euphorbiaceæ.

The parts used are the wood and leaves. The first is sudorific and possesses somewhat the properties of guaiacum; the latter are purgative, but neither are now used. The following preparation, however, has obtained some celebrity in the cure of gonorrhœa, and in epilepsy.

## OIL OF BOX.

R. Rased box-wood sufficient  
Distil, separate the oil, and rectify it.  
Dose, four to five drops, three times a-day. *Wirtemberg Ph.*

## C.

## CACAO.

## COCOA. CHOCOLATE NUTS.

These are the seeds of *Theobroma Cacao*, a small tree, indigenous to South America, and are also produced from some other sources.

*Sex. Syst.* Polydelph. pentand. *Nat. Syst.* Bytneraceæ.

Linn. Sp. Pl. 1100. Lindley, Flor. Med. 138.

The nuts are of an almond shape, and consist of a white, sweetish, somewhat oleaginous substance, covered by a leathery like shell. They are principally used as an article of food, but also are employed in medicine.

## COMPOUND COCOA POWDERS.

## PALAMOND.

R. Roasted cocoa eight ounces  
Rice flour  
Potato starch, each, two pounds  
Red saunders, powdered, one ounce  
Mix. A drachm to an ounce, boiled in water, as a restorative diet. *Soubeiran.*

## RACAHOUT.

R. Roasted cocoa two ounces  
Potato starch five ounces  
Powdered salep one ounce  
Sugar eight ounces  
Vanilla sufficient  
Mix. Two or three spoonfuls boiled with eight fl. ounces of water, form a nutritious diet for the convalescent. *Foy.*

## WIKANA.

R. Roasted cocoa two ounces  
Sugar five ounces and a-half  
Powdered cinnamon two drachms  
vanilla thirty-six grains  
Ambergris three grains  
Musk one grain and a-half  
Mix. Half a drachm, boiled with milk or water, more stimulating than the last. *Guibourt.*

## COMPOUND COCOA PASTE CHOCOLATE.

## VANILLA CHOCOLATE.

R. Cocoa paste six pounds  
Sugar ten pounds  
Vanilla eleven drachms  
Triturate thoroughly together, and form cakes. *Cottureau.*

## AROMATIC CHOCOLATE.

R. Cocoa  
Sugar, each, sixteen ounces  
Powdered cinnamon half an ounce

Cloves two drachms  
Cardamom  
Vanilla, each, one drachm  
Triturate together, and form cakes. *Weiglebt.*

## SALEP CHOCOLATE.

R. Cocoa paste  
Sugar, each, ten pounds  
Powdered salep ten ounces  
Triturate well, and form cakes of half an ounce each. *Cadet.*

## WHITE CHOCOLATE.

R. Sugar six pounds  
Rice flour one pound twelve ounces  
Potato starch eight ounces  
Gum Arabic four ounces  
Tincture of vanilla half fl. ounce  
Butter of cocoa eight ounces  
Boiling water sufficient  
Triturate well, into a stiff paste. *Cottureau.*

These afford a good article of diet, for convalescents, and debilitated persons, when boiled with water or milk. The last is the least stimulating.

## CHOCOLATE CREAM.

R. Boiling milk sixteen parts  
Sugar  
Yolk of egg, each, two parts  
Ground cocoa one part  
Mix, and boil gently. *Beral.*

## BUTTER OF COCOA.

R. Cocoa, roasted at will  
Reduce to a paste in a warm iron mortar, triturate on a stone slab, add a fifth part boiling water, place it in a bag, and express between two heated metal plates; melt the product, and, on cooling, separate the water. *Guibourt.*

## BUTTER OF COCOA MIXTURE.

R. Butter of cocoa three ounces  
Oil of almonds one ounce and six drachms  
Syrup of red poppies one ounce  
Orange-flower water four drachms  
Mix. As a soothing demulcent in catarrh. In spoonful doses. *Cadet.*

## BUTTER OF COCOA OINTMENT.

R. Butter of cocoa  
Oil of almonds equal parts  
Melt over a water-bath. *Guibourt.*

CADMIUM.

CADMIUM.

A soft, crystallizable, ductile, volatilizable metal, not used in medicine in its metallic state, but affording the following remedial salt.

CADMII SULPHAS.

SULPHATE OF CADMIUM.

R. Oxide of cadmium                    one ounce  
Sulphuric acid                    sufficient  
Dissolve, evaporate, and crystallize.

*Cottreav.*

Used in solution and ointment, as an application in chronic ophthalmia.

SOLUTION OF SULPHATE OF CADMIUM.

R. Sulphate of cadmium            two grains  
Laudanum                    twenty drops  
Rose water                    four fl. ounces  
Mix. As a wash in chronic ophthalmia

*Guibourt.*

OINTMENT OF SULPHATE OF CADMIUM.

R. Sulphate of cadmium            one or two grains

Lard                    one drachm

Mix. As an application in spots on the cornea.

*Radiis.*

CALAMUS.

CALAMUS.

This is the root of *Acorus Calamus*, an indigenous plant found in most parts of the U. S. in wet situations. It also grows in Europe and Asia.

*Sex. Syst.* Hexand. monog. *Nat. Syst.* Orontiacere.

*Linn. Sp. Pl.* 462. *Griffith, Med. Bot.* 620.

The part employed is the root; this has a fragrant odor, and a warm, bitterish, aromatic taste. It is a stimulant tonic, and aromatic. The dose, in substance, is from a scruple to a drachm.

ELECTUARY OF CALAMUS.

R. Powdered calamus            two drachms and a-half  
valerian                    one drachm and a-half

Syrup of orange peel            two ounces

Mix. A teaspoonful every two hours.

*Shubarth.*

INFUSION OF CALAMUS.

R. Calamus                    one ounce  
Boiling water                    one pint

Infuse for a quarter of an hour, and strain. Dose, a wineglassful or more.

COMPOUND INFUSION OF CALAMUS.

R. Calamus                    ten drachms  
Boiling water                    one pint

Infuse and strain, then add

Peppermint water                    two ounces

Muriatic ether                    one drachm and a-half

Syrup                    one ounce

Mix. Dose, a spoonful, in disordered digestion.

*Augustin.*

TINCTURE OF CALAMUS.

R. Calamus bruised                    one part

Alcohol (0.847)                    eight parts

Macerate for eight days, and filter.

*Guibourt.*

COMPOUND TINCTURE OF CALAMUS.

R. Contused calamus

ginger

coriander

Black pepper, each,                    one ounce

Alcohol                    two pints and a-half

Macerate for four days, and filter. Dose, forty to fifty drops as a stomachic and carminative.

*Niemann.*

R. Contused calamus

gentian, each,                    three ounces

geum two ounces and a-half

angelica                    one ounce and a-half

ginger                    half an ounce

fennel                    two ounces

alcohol                    twelve pints

Macerate for six days, and filter. A teaspoonful in wine.

*Tromsdorff.*

CALCIUM.

CALCIUM.

CALCII CHLORIDUM.

CHLORIDE OF CALCIUM.

R. Chalk                    five ounces

Muriatic acid

Water, each,                    ten fl. ounces

Mix the acid and water, and gradually add the chalk. When all action ceases, filter, and evaporate to dryness. Fuse, and pour out on a stone slab; when cool, break in fragments, and preserve in well-stopped bottles.

*Lond. Ph.*

CATAPLASM OF CHLORIDE OF CALCIUM.

R. Chloride of calcium

soda, each,                    half an ounce

Water                    half a pint

Linseed meal                    sufficient

Make a cataplasm. In scrofulous and white swellings.

*Swediaur.*

SOLUTION OF CHLORIDE OF CALCIUM.

R. Chloride of calcium                    eight ounces

Water (imp. meas.)                    twelve fl. ounces

Dissolve, and filter.

*Edin. Ph.*



Dose, thirty drops two or three times a-day, gradually increased; to be given in milk, or some demulcent. Used in scrofula, goitre, tabes mesenterica, &c.

#### MIXTURE OF CHLORIDE OF CALCIUM.

R. Chloride of calcium one drachm  
Extract of henbane ten grains  
Syrup of liquorice one ounce  
Water six ounces

Mix. A spoonful four times a-day in scrofula. *Phæbus.*

R. Chloride of calcium .one drachm  
Almond mixture seven fl. ounces  
Syrup of gum Arabic one fl. ounce  
Mix. A teaspoonful every three hours. *Gräfe.*

#### PILLS OF CHLORIDE OF CALCIUM.

R. Chloride of calcium one drachm  
Extract of opium nine grains  
Mucilage of gum Arabic sufficient  
Mix, and make fifty-four pills. One every two or three hours, in gonorrhœa, gradually increasing the dose, until eight, ten, or twelve are taken every hour. *Gräfe.*

### CALX CHLORINATA.

#### CHLORINATED LIME.

##### CHLORIDE OF LIME.

R. Hydrate of lime a pound  
Chlorine sufficient  
Pass the chloride over the lime, spread in a proper vessel, until it is saturated. *Lond. Ph.*

It is a dessicant and disinfectant, and is also used to ill-conditioned ulcers, burns, chilblains, to some cutaneous affections, &c.

##### PRESERVATIVE LIQUID.

R. Water sixteen parts  
Chlorinated lime four parts  
Alum two parts  
Nitric one part  
Mix. Said to be very efficient for the preservation of anatomical preparations. *Reboullet.*

#### LOZENGES OF CHLORINATED LIME.

R. Chlorinated lime two drachms  
Sugar eight ounces  
Starch one ounce  
Tragacanth one drachm  
Cochineal three grains

Rub well together, and make lozenges of three grains each. One to be taken three or four times a-day, in cases of bad breath. *Deschamps.*

#### COLLUTORY OF CHLORINATED LIME.

R. Chlorinated lime fifteen to thirty grains  
Mucilage of gum Arabic one fl. ounce  
Syrup of orange peel half fl. ounce  
Mix. To be applied by means of a piece of sponge or camel's hair brush, to ulcers in the mouth. *Angelot.*

R. Chlorinated lime three drachms  
Distilled water  
Alcohol, each, two fl. ounces  
Oil of roses four drops  
Dissolve, and filter. A teaspoonsful in a glass of water, to correct fetid breath. *Chevallier.*

#### CHLORINATED LIME DENTIFRICE.

R. Chloride of lime four grains  
Powdered red coral two drachms  
A toothbrush, slightly wetted, to be dipped in this powder, and rubbed on the teeth. *Magendie.*

#### COMPOUND INJECTION OF CHLORINATED LIME.

R. Chloride of lime two drachms  
Decoction of rhatany thirteen fl. ounces  
Dissolve, and filter. As an injection in ozœna, three or four times a-day. *Detmold.*

#### OINTMENT OF CHLORINATED LIME.

R. Chlorinated lime one drachm  
Lard one ounce  
Rub together. In scrofulous swellings. *Cima.*

R. Chlorinated lime half a drachm.  
Lard one ounce  
Rub together. In goitre. *Werneck.*

R. Chlorinated lime  
Borate of soda, each, one drachm  
Lard one ounce  
Rub together thoroughly. In chilblains. *Trusen.*

R. Chlorinated lime one drachm  
Powdered digitalis two drachms  
Vinegar two fl. scruples  
Lard one ounce  
Rub together. In indolent glandular tumors. *Phæbus.*

#### LINIMENT OF CHLORINATED LIME.

R. Chlorinated lime half a drachm  
Rub in a glass mortar, adding gradually, Rose water one fl. ounce  
and when quite clear Oil of almonds one fl. ounce  
As an application in tinea capitis. *Trusen.*



## CALCII IODIDUM.

## IODIDE OF CALCIUM.

R. Iodide of iron at will  
Precipitate with an excess of slaked lime,  
evaporate to dryness, dissolve in distilled  
water, filter, evaporate, and crystallize.  
*Magendie.*

## PILLS OF IODIDE OF CALCIUM.

R. Iodide of calcium ten grains  
Extract of savine twelve grains  
Mix, and divide into four pills. One every  
four hours. In amenorrhœa, with serofula.  
*Brera.*

R. Iodide of calcium ten grains  
Extract of aconite six grains  
Mix, and divide into six pills. One every  
four hours. In chronic bronchitis and  
tubercular phthisis. *Brera.*

## CALCII SULPHURETUM.

## SULPHURET OF CALCIUM.

R. Quicklime seven parts  
Sulphur four parts  
Pulverize, and heat for two hours in a  
covered crucible. *Guibourt*

R. Quicklime two parts  
Sulphur one part  
Water five parts  
Mix, and boil gently, evaporate to dryness,  
stirring. *Cottureau.*

Stimulant, diaphoretic. Dose, five to ten  
grains.

## COMPOUND PILLS OF SULPHURET OF CALCIUM.

R. Sulphuret of calcium one drachm  
Powdered cinnamon  
Extract of monkshood, each, fifteen  
grains  
mallows sufficient  
Mix, and make sixty pills. Dose, four,  
three or four times a-day, in gout and  
chronic rheumatism. *Phabus.*

## LINIMENT OF SULPHURET OF CALCIUM.

R. Sulphuret of calcium one ounce  
Oil of juniper two drachms  
Dippel's animal oil ten drops  
Mix well. As an embrocation in gout.  
*Augustin.*

## CALCIUM OXIDI. CALX.

## LIME.

R. Chalk one pound  
Break into small pieces, and calcine in a  
strong fire for an hour. *Lond. Ph.*

## LIME WATER.

R. Lime four ounces  
Distilled water one gallon  
Slake the lime with a little of the water,  
add the remainder, stir well, and let stand  
for three hours. Keep in well-stopped  
bottles. *U. S. P.*

## COMPOUND LIME WATER.

R. Rasped guaiacum wood half an ounce  
Contused liquorice root one ounce  
sassafras bark half an ounce  
coriander seeds three  
drachms  
lime water six pints

Macerate for two days in a closed vessel,  
and filter. *Dub. Ph.*

## LINIMENT OF LIME WATER AND OIL.

R. Linsced oil three fl. ounces  
Lime water six fl. ounces  
Make a liniment. As an application to  
burns and scalds. *Ellis.*

## LINIMENT OF LIME WATER AND ALCOHOL.

R. Alcohol two fl. ounces  
Lime water half a pint  
Mix. In same cases as the last. *Ellis.*

## LINIMENT OF LIME WATER AND OPIUM.

R. Lime water  
Linsced oil  
Laudanum equal parts  
Mix. In the same cases, and as an em-  
brocation to allay pain. *Augustin.*

## LINIMENT FOR SORE BREASTS.

R. Lime water  
Almond oil, each, three drachms  
Extract of opium one grain  
Mix. The breasts are to be covered with  
lint dipped in this mixture. *Niemann.*

## LINIMENT OF LIME AND SULPHUR.

R. Lime  
Sulphur, each, two ounces  
Olive oil sufficient  
Mix. As a friction in scabies. *Giannini.*

## LIME WATER AND CARBONATE OF POTASSA.

R. Carbonate of potassa two drachms  
Lime water two pints  
Dissolve. As an antilithic; a wineglass-  
ful every two hours, in same quantity of  
new milk. *Ellis.*

## LIME WATER AND MILK.

R. Lime water  
New milk equal parts  
Mix. As an antacid, and to remove sick-

ness of the stomach. Dose, one to two tablespoonfuls. *Ellis.*

## ANTACID MIXTURE.

R. Lime water four ounces  
Solution of potassa  
Syrup of orange peel, each, one ounce  
Mix. Dose, a tablespoonful in a cup of water. Found useful in dyspepsia and heartburn. *Cooley.*

## LIME OINTMENT.

R. Lime one ounce  
Linseed oil three ounces  
Mucilage of quince seeds two ounces  
Mix well. In burns and scalds. *Radius.*  
R. Slaked lime one drachm  
Carbonate of soda two drachms  
Extract of opium ten grains  
Lard two ounces  
Rub well together. In obstinate cutaneous affections. *Bielt.*

R. Slaked lime  
Laudanum, each, half a drachm  
Cucumber ointment four drachms  
Rub well together. As an application to hemorrhoidal tumors. *Guibourt.*

R. Lime  
Sulphur, each, two ounces  
Muriate of soda one ounce  
Lard one pound  
Olive oil two pounds  
Mix well. As a friction in itch. *Ferrara. Ph.*

## CALCIS CARBONAS.

## CARBONATE OF LIME.

## PRECIPITATED CARBONATE OF LIME.

R. Water of chloride of calcium five parts  
Carbonate of soda three parts  
Dissolved in four times its weight of distilled water. Mix. Wash the precipitate three times, and dry. *Dub. Ph.*

## PREPARED CHALK.

R. Chalk at will  
Add a little water, and rub to fine powder. Throw into a vessel of water, and stir, pour off liquid, while yet turbid, into another vessel, and permit chalk to subside; pour off water, and dry the precipitate. *U. S. Ph.*

## PREPARED OYSTER SHELL.

R. Oyster shell at will  
Free it from extraneous matter, wash with boiling water, reduce to powder, and proceed as with chalk. *U. S. Ph.*

As an antacid in bowel affections. In doses

of from ten to forty, or more grains, often repeated.

## AROMATIC POWDER OF CHALK.

R. Prepared oyster shell two drachms  
Magnesia one drachm  
Powdered cinnamon one scruple  
Mix.

## COMPOUND POWDER OF CHALK.

R. Prepared chalk half a pound  
Cinnamon four ounces  
Tormentil  
Gum Arabic, each, three ounces  
Long pepper half an ounce  
Beat separately into fine powder, and mix. *Lond. Ph.*

Stimulant, astringent, and antacid; useful in diarrhœa, with acidity, but without inflammation. Dose, ten to twenty grains.

## COMPOUND POWDER OF CHALK WITH OPIUM.

R. Compound powder of chalk six ounces and a-half  
Powdered opium four scruples  
Mix well. *Lond. Ph.*

In diarrhœa of adults, in doses of ten or twenty grains, after each evacuation.

## DENTIFRICE POWDER WITH CARBONATE OF LIME.

R. Powdered cuttlefish bone  
Peruvian bark  
myrrh equal parts  
Mix. *Pierquin.*

R. Powdered cuttlefish bone six ounces  
red coral two ounces  
dragon's blood  
red saunders  
orris root, each, one ounce  
and a-half

cinnamon  
alum, each, half an ounce  
Mix. *Par. Ph.*

## LOZENGES OF CHALK.

R. Prepared chalk four ounces  
Gum Arabic, powdered, one ounce  
Nutmeg " one drachm  
Sugar " six ounces

Rub together till mixed; mix with sufficient water to form mass; divide into lozenges of ten grains each. *U. S. Ph.*

As a mild antacid astringent, in diarrhœa.

## DENTIFRICE ELECTUARY.

R. Powdered red coral four ounces  
cuttlefish bone  
cinnamon, each, one ounce  
cochineal half an ounce  
alum half a drachm

Mix. oil of cloves six drops  
honey ten ounces  
*Taddei.*

CHALK MIXTURE.

R. Prepared chalk half an ounce  
Sugar  
Powdered gum Arabic, each, two drachms  
Cinnamon water  
Water, each, four fl. ounces  
Rub them together until thoroughly mixed  
*U. S. Ph.*

A tablespoonful, as may be required.

R. Prepared chalk one drachm and a-half

White sugar  
Gum Arabic, each, sufficient  
Oil of cinnamon two drops  
Tincture of opium forty to fifty drops  
Distilled water four fl. ounces  
Mix. A tablespoonful, every two hours, in diarrhoea and dysentery.  
*Ellis.*

COMPOUND CHALK MIXTURE.

R. Chalk mixture five fl. ounces  
Aromatic confection one drachm  
Solution carbonate ammonia one fl. drachm  
Laudanum twenty minims  
Mix. A tablespoonful, occasionally, in diarrhoea.  
*Ainslie.*

CALCIS PHOSPHAS.

PHOSPHATE OF LIME.

R. Burnt bones, in powder one part  
Diluted muriatic acid  
Water, each, two parts  
Digest together for twelve hours, and filter. Add water of caustic ammonia, sufficient to precipitate phosphate of lime. Wash this, and dry.  
*Dub. Ph.*

BURNT HARTSHORN.

R. Burn pieces of hartshorn in an open vessel till quite white, and prepare them as directed for chalk.  
*Lond. Ph.*

Has been thought efficacious in mollities ossium and rachitis, but probably inert. Dose, twenty grains, or more.

DENTIFRICE POWDER OF PHOSPHATE OF LIME.

R. Phosphate of lime eighteen parts  
White bole  
Gum lac, each, twelve parts  
Cinnamon one part  
Myrrh two parts  
Powder well, and mix.  
*Van Mons.*

DENTIFRICE ELECTUARY OF PHOSPHATE OF LIME.

R. Powdered phosphate of lime two ounces and a-half  
gum lac one ounce  
cinnamon one drachm and a-half  
cloves one scruple  
Syrup of lemon sufficient  
Make a soft electuary.  
*Van Mons.*

CALENDULA.

MARYGOLD.

This is the officinal name of *Calendula officinalis*, a plant indigenous to Europe, and often cultivated in gardens in this country as a pot herb.

*Sex. Syst.* Syngen. necess. *Nat. Syst.* Asteraceæ. Linn. Sp. Pl. 1304. Lindley, Flor. Med. 466.

The parts used are the herb, flowers, and seed. Their smell is peculiar, and somewhat aromatic; the taste is feebly bitter, and a little acid. It was formerly much used, but had fallen into disuse, when, of late years, it has again been brought forward as a remedy in cancerous affections.

EXTRACT OF MARYGOLD.

R. Marygold one part  
Tepid water four parts  
Macerate for twenty-four hours, boil for a quarter of an hour, express, boil residue with four parts of water, express, mix two decoctions, and evaporate to proper consistency.  
*Guibourt.*

PILLS OF THE EXTRACT OF MARYGOLD.

R. Extract of marygold  
cicuta  
Sub carbonate of iron, each, two drachms  
Powdered marygold one drachm and a-half  
Mix well, and divide into pills of two grains each. Five or six are to be taken three times a-day in schirrhus and cancerous affections.  
*Rust.*

LOTION OF EXTRACT OF MARYGOLD.

R. Extract of marygold  
cicuta, each, three drachms  
Cherry laurel water two ounces  
Tincture of opium half an ounce  
Mix. As a lotion to cancerous ulcerations.  
*Radiis.*

INFUSION OF MARYGOLD.

R. Marygold flowers three drachms  
Boiling water sufficient  
to obtain five ounces; infuse, and add to the strained liquid



Syrup of orange peel half an ounce  
Dose, two spoonfuls, three times a-day.

*Radiis.*

### OINTMENT OF MARYGOLD.

R. Marygold flowers three drachms  
Water five fl. ounces  
Boil to three ounces, strain, and add  
Extract of marygold one drachm  
Tar two ounces  
Pyroligneous acid half an ounce  
Gum Arabic sufficient  
Mix. As an application to cancerous  
ulcers. *Radiis.*

## CALOTROPIS.

### MUDAR.

The *Calotropis gigantea* is a native of the East Indies, and is now naturalized in several of the West India Islands.

*Sex. Syst.* Pentand. monog. *Nat. Syst.* Asclepiadaceæ.

Brown, Tr. Wern. Soc. 1. 29. Griffith, Med. Bot. 456.

The part used is the bark of the root; this is of a whitish color, inodorous, but with a bitter, nauseous taste. It is purgative, alterative, and diaphoretic, and has been highly spoken of in the treatment of elephantiasis and lepra. Dose, three grains to thirty; in the latter dose it is emetic and purgative.

### INFUSION OF MUDAR.

R. Mudar three drachms  
Boiling water eight ounces  
Infuse, and strain. As an alterative, one to two fl. drachms; emetic, two fl. ounces.

*Cassanova.*

### PILLS OF MUDAR.

R. Powdered mudar one drachm  
Honey sufficient  
Beat into mass, and divide into pills of four grains. Two or three to be taken a-day as alterative in lepra, &c. *Cassanova.*

### OIL OF MUDAR.

R. Powdered mudar one drachm  
Olive oil seven ounces  
Infuse for half an hour over a water-bath, and strain. As an application to leprous sores. *Cassanova.*

## CAMPHORA.

### CAMPHOR.

A peculiar white, crystallizable, semi-transparent, volatile product of several plants, but that used in medicine is obtained from the *Camphora officinarum*, an evergreen tree, of considerable size, indigenous to China, and other Asiatic countries.

*Sex. Syst.* Enneand. monog. *Nat. Syst.* Lauraceæ.

Nees. Laurin. 88. Griffith, Med. Bot. 553.

It has narcotic, diaphoretic, sedative properties, and is employed in a variety of diseases, and used externally, as an anodyne. The dose is from three to ten grains. Camphor can be powdered by trituration, with a few drops of alcohol.

### CAMPHOR POWDER.

R. Camphor nine grains  
Sugar one drachm  
Mix, and divide into nine powders.

*Augustin.*

### COMPOUND CAMPHOR POWDER

R. Powdered camphor  
Myrrh, each, two drachms  
Peruvian bark  
Chamomile, each, half an ounce  
Charcoal one ounce  
Mix. Dose two scruples, or more, in gangrene. *Rust.*

R. Powdered camphor  
Benzoic acid, each, six grains  
Sugar one drachm  
Mix, and divide into four powders. As an antispasmodic and sedative. *Saunders.*

R. Powdered gum Arabic one ounce  
orange peel  
sugar, each, two drachms  
camphor ten grains  
opium five grains  
Mix. A teaspoonful every hour. *Ammon.*

Said to have been useful in cholera.

### CAMPHOR PILLS.

R. Powdered camphor  
Sugar  
Starch  
Crumb of bread, each, one scruple  
Mix, and make twenty pills. *Augustin.*

### COMPOUND CAMPHOR PILLS.

R. Powdered camphor twenty-four grains  
musk eight grains  
opium two grains  
syrup sufficient  
Beat into a mass, and divide into six pills. In hospital gangrene. *Dupuytren.*

### PILLS OF CAMPHOR AND LACTUCARIUM.

R. Camphor  
Lactucarium, each, fifty grains  
Mix, and make twenty pills. Four to six daily, as anaphrodisiac. *Ricord.*

### PILLS OF CAMPHOR AND MUSK.

R. Camphor one scruple  
Musk ten grains



Gum ammoniac two scruples  
Opium four grains  
Mix, and divide into four grain pills.  
Dose, four or five in a day, in nervous disorders. *Richard.*

## CAMPHOR WATER.

R. Camphor two drachms  
Alcohol forty minims  
Carbonate of magnesia one drachm  
Distilled water two pints  
Rub the camphor with the alcohol, then with the magnesia, and afterwards, with the water gradually added, filter. *U. S. Ph.*

Dose, one or two tablespoonfuls, to be repeated on occasion may require.

## CAMPHOR WATER AND LAUDANUM.

R. Camphor water four fl. ounces  
Compound spirit of lavender two drachms  
Tincture of opium forty to fifty drops  
Mix. A tablespoonful, every two hours, in diarrhoea and dysentery. *Ellis.*

## CAMPHOR WATER AND NITRIC ACID.

R. Camphor water four fl. ounces  
Nitric acid four drops  
Tincture of opium forty to fifty drops  
Mix. In the same dose, and in the same complaints, as the last. *Ellis.*

R. Camphor water ten fl. drachms  
Laudanum forty drops  
Spirit of sulphuric ether

Syrup of poppies one fl. drachm  
one fl. drachm  
Mix. To prevent a paroxysm of intermittent fever. To be given just before its accession. *Gregory.*

## CAMPHOR WATER AND HOFFMANN'S ANODYNE.

R. Camphor water four fl. ounces  
Hoffmann's anodyne two fl. drachms  
Mix. A desertspoonful, every hour or two, in some demulcent drink. In nervous affections and sleeplessness in fevers. *Ellis.*

## INFUSION OF CAMPHOR.

R. Camphor one ounce  
Boiling water eight fl. ounces  
Pour water on camphor, and let stand till cold, keep in well-stopped bottle. Dose, a tablespoonful, every hour or two, in nervous per vigilium and nervous irritability. *Ellis.*

## CAMPHOR MIXTURE.

R. Powdered camphor one drachm  
gum Arabic

white sugar, each,  
one drachm and a-half

Tincture of opium forty drops  
Mint water four fl. ounces

Mix. A tablespoonful every two hours, in low conditions of the system. *Ellis.*

R. Powdered camphor one scruple  
gum Arabic one drachm  
sugar sufficient  
Cinnamon water one ounce

Mix. To relieve the pain in dysmenorrhœa. One-half to be given as soon as pain is felt, if not relieved in an hour or two, the remainder to be taken. *Devees.*

R. Powdered camphor half a drachm  
gum Arabic two drachms  
sugar three drachms  
vinegar half an ounce  
water six ounces

Mix. As a stimulant. *Phæbus.*

## EMULSION OF CAMPHOR.

R. Camphor  
Olive oil, each, one drachm  
Powdered gum Arabic half an ounce  
Water four fl. ounces  
Triturate the camphor and oil together, until uniformly mixed; add the gum, and then the water gradually, triturating till the emulsion is formed. *W. Procter.*

## CAMPHOR AND MILK.

R. Camphor one drachm  
Boiling milk four fl. ounces  
Dissolve. To be used as the last. *Ellis.*

## CAMPHOR WITH MYRRH.

R. Powdered camphor one drachm  
myrrh half a drachm  
sugar two drachms  
water six fl. ounces

Mix. A tablespoonful every two hours. *Ellis.*

## TINCTURE OF CAMPHOR.

R. Camphor four ounces  
Alcohol two pints  
Dissolve. *U. S. Ph.*

Chiefly used as an anodyne embrocation.

## TINCTURE OF CAMPHOR AND SAFFRON.

R. Camphor one ounce  
Saffron one scruple  
Alcohol one pint  
Macerate for a day, and filter. *Guibourt.*

As a lotion, or fomentation.

## ETHEREAL TINCTURE OF CAMPHOR.

R. Camphor one ounce  
Sulphuric ether eight fl. ounces  
Dissolve. *Swediaur.*

Dose, twenty to thirty drops, in wine, as a stimulant and antispasmodic.

#### MIXTURE OF TINCTURE OF CAMPHOR.

R. Tincture of camphor  
Goulard's extract                      equal parts  
Mix. As a lotion, several times a-day, to parts disposed to ulcerate by constant decubitus. *Tott.*

#### MIXTURE OF CAMPHOR AND CHLOROFORM.

R. Camphor                                      one drachm  
Chloroform                                  half fl. drachm  
Mix, and add  
Yolk of egg                                      one  
Triturate, and add gradually  
Water    six fl. ounces  
As a stimulant. Dose, two fl. drachms to fl. half ounce. *Keating.*

#### MIXTURE OF CAMPHOR AND ETHER.

R. Camphor water                              one ounce  
Sulphuric ether                                  one scruple  
Syrup    one ounce  
Hot water    two pints  
Mix. In spoonful doses in gout in the stomach. *Pierquin.*

R. Camphor                                      one scruple  
Sulphuric ether                                  two drachms  
Dissolve, and add  
Laudanum    twenty drops  
Cinnamon water                                  six ounces  
Mix. A spoonful every three or four hours as a stimulant. *Augustin.*

#### CAMPBOR LINIMENT.

R. Camphor                                      half an ounce  
Olive oil    two fl. ounces  
Dissolve the camphor in the oil. *U. S. Ph.*  
As an anodyne embrocation.

#### COMPOUND CAMPHOR LINIMENT.

R. Camphor                                      two ounces and a-half  
Solution of ammonia,                              seven fl. ounces and a-half  
Spirit of lavender                                  one pint  
Mix solution of ammonia with the spirit; then, from a glass retort, by a slow fire, distil a pint; dissolve camphor in the distilled fluid. *Lond. Ph.*

A rubefacient and anodyne embrocation.

R. Camphor                                      one drachm  
Oil of chamomile  
Wine of opium, each,                              two drachms  
Oil of hyoseyamus                                  one ounce  
Mix. *Augustin.*

#### LINIMENT OF CAMPHOR AND VINEGAR.

R. Tincture of camphor                              three fl. ounces  
Acetic acid    one fl. drachm

Mix. As a lotion or embrocation. *Ellis.*

#### ETHEREAL CAMPHOR LINIMENT.

R. Soft soap                                      one ounce  
Alcohol, each,                                      one ounce  
Dissolve, and add  
Camphor    half an ounce  
Dissolved in  
Sulphuric ether                                      one fl. ounce  
As an embrocation. *Saunders.*

#### WARD'S ESSENCE FOR HEADACHE.

R. Camphor                                      two ounces  
Rectified spirit                                      fourteen ounces  
Water of ammonia                                  two ounces  
Oil of lavender                                      half an ounce  
Mix. As an application to the forehead, &c., in headache. *Redwood.*

#### CAMPBOR WATER MIXTURE.

R. Camphor water  
Solution of acetate of ammonia, each,                              half fl. ounce  
Antimonial wine  
Tincture of opium, each, twenty drops  
Mix. To be taken at bedtime, as a stimulating diaphoretic. *Ellis.*

#### CAMPBOR CLYSTER.

R. Camphor                                      one drachm  
Olive oil    two ounces  
Mix. An excellent enema in cases of ascarides, to be used for three or four successive nights. *Ellis.*  
R. Common clyster                                  two pints  
Camphor    two drachms  
Yolk of egg    one  
Mix. A fourth part to be injected at a time, to be employed as occasion may require in low fevers. *Chaussier.*

#### CAMPBOR OINTMENT.

R. Lard  
Suet  
Oil of bayberries  
Wax, each,    half an ounce  
Melt together, and add  
Camphor    one drachm  
Said to be efficacious as an application to chilblains. *Radiis.*  
R. Fresh butter                                      three drachms  
Spermaceti    two drachms  
White wax    three ounces  
Melt together, and add  
Powdered camphor  
Oxide of zinc, each,                                  three grains  
To be applied in chronic inflammation of eyelids, to the affected parts, at night. *Maternite.*  
R. Camphor                                      one drachm  
Basilicon ointment                                  one ounce

Soap half an ounce  
Powdered mustard one scruple  
Mix. As an external application in lumbago. *Ferriar.*

## CAMPHOR COLLYRIUM.

R. Camphor water six fl. ounces  
Solution acetate of ammonia two fl. ounces  
Mix. A mild astringent, stimulant in inflammation of the eyes. *Ellis.*

## LINIMENT OF CAMPHOR AND TURPENTINE.

R. Oil of turpentine fifteen parts  
Camphor one part  
Mix. As a stimulating embrocation. *Beral.*

## NITRATE OF CAMPHOR.

R. Nitric acid at will  
Camphor sufficient  
to saturate. Decant. Ten drops every two hours on sugar, or in syrup, in chronic pleurisy. Also used as a friction in rheumatism and palsy. *Van Mons.*

## CAMPHORATED COUGH MIXTURE.

R. Camphor half a scruple  
Mucilage of gum Arabic three ounces  
Syrup of mallows one ounce and a-half  
Mix. A teaspoonful every two hours. *Saunders.*

## CANELLA.

## CANELLA.

This is the bark of the *Canella alba*, a large tree, native of Jamaica and other West India islands.

*Sex. Syst.* Dodecand. monog. *Nat. Syst.* Meliaceæ.

*Swartz.* Trans. Linn. Soc. 1. 96. *Griffith, Med. Bot.* 181.

The part used is the bark, which is of a pale orange-yellow colour, with an aromatic odor, and warm, bitterish, pungent taste. It is principally used as an adjuvant to other remedies. The dose, as a stimulant, is from ten grains to a scruple.

## CANNABIS.

## HEMP.

The *Cannabis sativa* is an annual plant, a native of Asia, but generally cultivated in Europe and the United States. The East Indian plant is more powerful in its action on the system than that growing in more temperate climates.

*Sex. Syst.* Diœc. pentand. *Nat. Syst.* Cannabaceæ.

*Linn. Sp. Pl.* 1457. *Griffith, Med. Bot.* 572.

The parts used are the seeds, the leaves, and the stems; the two latter are covered with a resin-

ous exudation, which is narcotic and intoxicating. They have been recommended in a variety of diseases of a formidable character.

## EXTRACT OF HEMP.

R. Dried hemp tops at will  
Boil in alcohol until all the resinous matter is dissolved; strain, and evaporate to proper consistence. *O' Shaughnessy.*

Has been given with success in tetanus, hydrophobia, cholera, &c. Dose, ten grains. To be increased as occasion may require.

## TINCTURE OF HEMP.

R. Extract of hemp twenty-four grains  
Diluted alcohol one fl. ounce  
Dissolve. In tetanus, one drachm every half hour, till some effect is produced. In cholera, ten drops every half hour. *O' Shaughnessy.*

## EMULSION OF HEMP-SEED.

R. Hemp-seed bruised six drachms  
Gum Arabic one drachm  
Parsley water five fl. ounces  
Rub together so as to form emulsion, strain, and add

Syrup of balsam of Peru one ounce  
A spoonful every hour in gonorrhœa. *Radiis.*

## RESIN OF HEMP.

R. Dried hemp tops, bruised, at will  
Macerate several times in warm water, and then in a solution of carbonate of soda; afterwards, wash well with water, pressing after each operation. Dry, and digest in rectified spirit, to which milk of lime, containing an ounce of lime to each pound of hemp tops, has been added. Filter, add a slight excess of sulphuric acid; again filter, distil off most of the spirit, add to the residue three or four times its bulk of water, evaporate the rest of the spirit, decant the water, wash and dry. Dose, two-thirds of a grain. *Smith.*

## CANTHARIS.

## SPANISH FLY.

The *Cantharis vesicatoria* is an insect inhabiting those parts of Europe in which the vine grows naturally. It has a fetid odor and an acrid taste. The body is oblong, of a golden green color. Spanish flies are stimulant, diuretic, rubefacient, and vesicant. They are used internally in dropsies, and in various disorders of the urinary organs; externally, to irritate or vesicate. Several species are natives of the United States, which are not inferior in their powers to the foreign insect. Dose, one to two grains.

## POWDER OF CANTHARIDES AND SAVINE.

R. Powdered cantharides two grains



savine one drachm  
Mix, and divide into four powders. One  
to be taken at night, as an emmenagogue,  
watching its effects closely. *Ellis.*

#### POWDER OF CANTHARIDES AND CAMPHOR.

R. Powdered cantharides four grains  
camphor eight grains  
Sugar of milk three drachms  
Mix, and divide into eight powders, one to  
be given twice a-day as a diuretic.

*Augustin.*

R. Powdered cantharides eighteen grains  
opium  
camphor, each,  
thirty-six grains  
Mix, and form into thirty-six pills. One  
to be taken at bedtime, in cases of im-  
potency from general debility. *Ellis.*

#### EXTRACT OF CANTHARIDES.

R. Cantharides at will  
Digest, in four or five times their weight of  
alcohol; filter, repeat operation, unite the  
two tinctures, and evaporate. *Soubéiran.*

#### PILLS OF CANTHARIDES AND IRON.

R. Powdered cantharides one scruple  
Subcarbonate of iron two scruples  
Extract of liquorice one drachm  
Form a mass, and divide into pills of one  
grain each. Dose, three or four, three times  
a-day, gradually augmenting the dose. As  
a diuretic. *Meissner.*

#### PILLS OF CANTHARIDES AND CAPSICUM.

R. Powdered cantharides five grains  
capsicum eight grains  
camphor one scruple  
guaiacum one drachm

Tincture of colocynth sufficient  
Form mass, and divide into eighty pills.  
Dose, one, gradually increasing to four or  
five, twice a-day, in paraplegia. *Sundelin.*

#### INFUSION OF CANTHARIDES.

R. Cantharides one scruple  
Boiling water sufficient  
to obtain three ounces of infusion, after  
digesting for half an hour, and straining.  
*Soubéiran.*

#### EMULSION OF CANTHARIDES.

R. Cantharides one scruple  
Sweet almonds six drachms  
Sugar one ounce  
Beat together, and gradually rub up with  
Lime water ten ounces  
Strain. A spoonful every two or three  
hours in neuralgia, and in catarrh of the  
bladder. *Berends.*

R. Cantharides half a drachm  
Sweet almonds one ounce  
Sugar half an ounce  
Beat together, and make an emulsion with  
Hot water ten ounces  
Strain. A spoonful, every two or three  
hours, in hooping-cough. *Hufeland.*

#### VINEGAR OF CANTHARIDES.

R. Powdered cantharides two ounces  
Acetic acid one pint  
Macerate for eight days, express, and  
filter. *Lond. Ph.*  
As an epispastic, or as a rubefacient lotion.

#### TINCTURE OF CANTHARIDES.

R. Cantharides, bruised, one ounce  
Diluted alcohol two pints  
Macerate for fourteen days, express, and  
filter. *U. S. Ph.*

A very convenient mode of administering  
cantharides. Dose, from twenty drops to a fluid  
drachm. Also useful as a rubefacient.

#### CAMPHORATED TINCTURE OF CANTHARIDES.

R. Tincture of cantharides half an ounce  
Camphor three drachms  
Alcohol two ounces  
Mix. As a rubefacient. *Pierquin.*

#### COMPOUND TINCTURE OF CANTHARIDES.

R. Cantharides one drachm  
Mustard  
Black pepper  
Camphor, each, half an ounce  
Garlic one head  
Vinegar six ounces  
Alcohol twelve ounces  
Macerate for some days, express, and filter.  
Said to be very effectual as a rubefacient  
lotion in rheumatism, &c. *Foy.*

R. Tincture of cantharides.  
Extract of rosemary, each,  
one drachm

Solution of carbonate  
of potassa one drachm and a-half  
Water four ounces

Mix. As a lotion to promote the growth  
of hair, where it has been lost from an  
eruption, or from fever. *Sachse.*

#### TINCTURE OF CANTHARIDES AND GUAIA- CUM.

R. Powdered cantharides one drachm  
guaiacum forty-five grains  
Contused rhubarb one drachm and a-  
half  
shell lac half a drachm  
Alcohol twelve fl. ounces  
Digest, and strain. Dose, from thirty to



fifty drops, night and morning, in some demulcent. In gleet. *Ellis.*

#### ETHEREAL TINCTURE OF CANTHARIDES.

R. Powdered cantharides one part  
Aectie ether sixteen parts  
Digest for eight days, express, and filter.

*Foy.*

As a rubefacient and vesicant lotion; it is very energetic.

#### ETHEREAL EXTRACT OF CANTHARIDES.

R. Powdered cantharides at will  
Sulphuric ether sufficient  
treat the powder with the ether in a displacement funnel, properly arranged, until exhausted, and distil off the ether. Flies yield 8 per cent. of this extract. It is employed for increasing the activity of blistering plasters, and for admixture with wax to make blistering tissue paper.

*Soubeyran.*

#### CAMPHORATED ETHEREAL TINCTURE OF CANTHARIDES.

R. Powdered cantharides one part  
Nitrate of camphor three parts  
Aleohol fifty-six parts  
Digest and express, and filter at the end of a few days. Advised in dropsy, in the dose of ten to twenty drops, in white wine.

*Van Mons.*

#### OIL OF CANTHARIDES.

R. Cantharides one part  
Olive oil eight parts  
Digest for six hours on a water-bath, express, and filter.

*Guibourt.*

An active vesicant.

R. Cantharides one part  
Oil of rosemary eight parts  
Digest for fifteen days, express, and filter.

*Beral.*

More active than the preceding.

#### LINIMENT OF CANTHARIDES.

R. Powdered cantharides one ounce  
Oil of turpentine half a pint  
Digest for three hours over a water-bath, and strain.

*U. S. Ph.*

An active stimulant when applied to the skin; used with success in the low stages of typhus fevers. Requires caution in its use.

#### LINIMENT OF CANTHARIDES AND CAMPHOR.

R. Camphor three drachms  
Dissolve in  
Liniment of cantharides half fl. ounce  
Add,  
Strong mercurial ointment  
Simple ointment, each, one ounce

Mix, and form liniment. In low stages of fever, where the object is to arouse the system, and to affect it with mercury; also as an application to tumors. *Ellis.*

#### DECOCTION OF CANTHARIDES IN TURPENTINE.

R. Cantharides in powder four ounces  
Oil of turpentine twelve ounces  
Mix in a flask, place this in a salt-bath, and heat for four hours; then dissolve with oil of turpentine until twelve fl. ounces are obtained.

*Dr. Hartshorne.*

#### LINIMENT OF CANTHARIDES AND SOAP.

R. Tincture of cantharides half an ounce  
Liquid ammonia an ounce and a half  
Turpentine soap two ounces  
Spirit of turpentine one ounce  
of camphor eight ounces

Mix. A powerful rubefacient. *Niemann.*

R. Cantharides, in fine powder, one pound  
Yellow wax  
Resin

Lard, each, eight ounces  
Melt the wax, resin, and lard, together, and add the cantharides, stirring constantly till cold.

*U. S. Ph.*

The common blistering plaster.

#### CANTHARIDES OINTMENT.

R. Cantharides, in powder, two ounces  
Distilled water half a pint  
Resin cerate eight ounces

Boil down the cantharides in the water to one-half, strain, add cerate, and evaporate to proper consistence.

*U. S. Ph.*

As a stimulating dressing to blisters.

R. Spanish flies, in fine powder,  
Olive oil, each, six ounces  
Oil of turpentine three ounces

Yellow wax

Resin, each, four ounces

Mix the first three ingredients, place on a water-bath, and continue heat till the turpentine has nearly evaporated, stirring occasionally. Then add the wax and resin, previously melted together, and heat till well incorporated; remove from fire, and stir till cold.

*W. Procter.*

R. Powdered Spanish flies four ounces  
Boiling water twenty fl. ounces  
Macerate for twelve hours, and evaporate by a gentle heat to the consistence of syrup; add

Yellow wax four ounces

Resin

Olive oil



and rubefacient. Dose, five to ten grains in powder or pill.

## CAYENNE PEPPER PILLS.

R. Powdered cayenne pepper one drachm  
Crumb of bread  
Distilled water, each, sufficient  
Rub into mass, and form twelve pills.  
One, three or four times a-day. In debility of the stomach, especially from intemperance. *Ellis.*

R. Powdered cayenne pepper one scruple  
Extract of gentian one drachm  
Powdered gentian sufficient  
Form mass, and divide into sixty pills.  
In chronic dyspepsia. *Radiis.*

## CAYENNE PEPPER LOZENGES.

R. Cayenne pepper three drachms  
Ginger  
Horseradish, each, two drachms  
Sugar one ounce  
Conserve of roses one drachm  
Mix, and make thirty lozenges. One to be chewed occasionally in catarrhal deafness. *Fosbroke.*

## INFUSION OF CAYENNE PEPPER.

R. Cayenne pepper three drachms  
Boiling water half a pint  
Infuse, and strain. Dose, half a fl. ounce.

## CAYENNE PEPPER GARGLE.

R. Tincture of cayenne pepper half fl. ounce  
Rose water eight fl. ounces  
Mix.

R. Powdered cayenne pepper two tablespoonfuls  
Common salt a teaspoonful  
Boiling vinegar water, each, half a pint  
Infuse for an hour, and strain. In bad cases of scarlatina. *Chapman.*

R. Powdered cayenne pepper half an ounce  
Magnesia one drachm  
Boiling vinegar, each, eight ounces  
Infuse, and strain. Used in same cases, and in same manner as above. *Headley.*

## TINCTURE OF CAYENNE PEPPER.

R. Cayenne pepper one ounce  
Diluted alcohol two pints  
Macerate for fourteen days, and filter. *U. S. Ph.*

As a stimulant in low states of fever with gastric insensibility. Dose, one to two fl. drachms. Also used in a diluted state as gargle.

## TINCTURE OF CAYENNE PEPPER AND CANTHARIDES.

R. Cayenne pepper one drachm  
Cantharides ten drachms  
Alcohol one pint  
Digest for two days, and filter. Dose, ten drops. *Coze.*

## VINEGAR OF CAYENNE PEPPER.

R. Cayenne pepper one part  
Vinegar six parts  
Digest for some days, and filter. In doses of half a drachm to a drachm, in passive dropsies. *Beral.*

## CAYENNE PEPPER CATAPLASM.

R. Powdered cayenne pepper one ounce  
Ground mustard  
Common soap, each, three ounces  
Alcohol sufficient  
Mix. An active rubefacient. *Ammon.*

## LOTION OF CAYENNE PEPPER.

R. Tincture of cayenne pepper  
camphor, each, four ounces  
Solution of ammonia two ounces  
Mix. A very powerful rubefacient. *Ammon.*

## CARBO ANIMALIS.

## ANIMAL CHARCOAL.

This article is prepared by charring animal substances, usually bones. It requires purification for internal use.

## PURIFIED ANIMAL CHARCOAL.

R. Animal charcoal one pound  
Muriatic acid  
Water, each, twelve fl. ounces  
Mix the acid and water, and pour on charcoal; digest for two days, occasionally stirring. Decant, and wash the charcoal several times with water and dry it. *U. S. Ph.*

Weise advises it made thus,

R. Lean of beef or mutton two parts  
Broken bones one part  
Char by a moderate fire in a coffee-roaster, let cool and pulverize.

Has been given with advantage in scrofulous diseases, chronic glandular swellings, &c., in doses of ten to twenty grains.

## POWDER OF ANIMAL CHARCOAL.

R. Animal charcoal four grains  
Sugar one drachm  
Mix. To be taken morning and evening, in scrofula. *Weise.*

R. Animal charcoal six grains  
Burnt sponge twelve grains



Powdered liquorice root half a drachm  
Mix, and form six powders, one to be taken  
morning and night, in schirrhous goitre.

*Riecke.*

R. Animal charcoal four grains  
Powdered liquorice root four scruples  
Mix, and divide into eight powders, one to  
be taken morning and evening, dry; a little  
water drank afterwards. After the eight  
powders are taken, increase the dose, by  
half a grain at a time, to four grains. In  
scirrhous tumors, in mammae. A spare  
diet to be observed.

*Weise.*

R. Animal charcoal one scruple  
Subcarbonate of iron  
Sugar, each, two scruples  
Mix, and divide into ten powders. One  
three or four times a-day in incipient hy-  
pertrophy of the womb or ovaries. *Clarus.*

#### OINTMENT OF ANIMAL CHARCOAL.

R. Animal charcoal one part  
Lard two parts  
Rub together. *Giordano.*

R. Animal charcoal half an ounce  
Ointment of mallows six drachms  
Mix. As a friction to glandular engorge-  
ments. *Radiis.*

### CARBO LIGNI.

#### CHARCOAL

Is employed in medicine as an antiseptic and  
absorbent, and has been found useful in dyspepsia,  
&c. It also enters into the composition of poulti-  
ces, &c.

#### CHARCOAL DENTIFRICE POWDER.

R. Powdered charcoal four parts  
Peruvian bark two parts  
myrrh one part  
Mix. *Phabus.*

R. Powdered charcoal three drachms  
Peruvian bark two drachms  
calamus one drachm  
myrrh half a drachm

Oil of cloves three drops  
Mix. *Sartori.*

R. Powdered charcoal  
red saunders  
orange peel  
Peruvian bark  
cremor tartar, each,  
one drachm

Oil of bergamot twenty drops  
Mix. *Schubarth.*

#### POWDER OF CHARCOAL AND QUASSIA.

R. Powdered charcoal six drachms

quassia

Magnesia, each, one drachm  
Mix. Dose, a teaspoonful, two or three  
times a-day, in pyrosis. *Heim.*

#### CHARCOAL LOZENGES.

R. Powdered charcoal  
sugar, each, one ounce  
chocolate three ounces  
Mucilage of tragacanth sufficient  
Beat together, and form lozenges of eigh-  
teen grains. For fetid breath.

*Chevallier.*

#### CHARCOAL ELECTUARY.

R. Powdered charcoal  
Carbonate of soda, each, one drachm  
Electuary of senna two ounces  
Mix. Two or three teaspoonfuls a-day in  
obstinate constipation. *Radiis.*

R. Powdered charcoal  
orris root  
Peruvian bark, each,  
one scruple

Tincture of myrrh half a drachm  
Clarified honey sufficient  
Mix. Used as a dentifrice. *Radiis.*

#### OINTMENT OF CHARCOAL.

R. Powdered charcoal  
Storax ointment, each, one ounce  
Camphor  
Myrrh, each, two drachms  
Spirit of turpentine sufficient  
Rub well together. As a dressing to  
fetid ulcers. *Rust.*

#### CHARCOAL CATAPLASM.

R. Freshly prepared charcoal sufficient  
Mix with  
Simple cataplasm in a tepid state.  
*Dub. Ph.*

As an application to foul and gangrenous  
ulcers.

R. Powdered charcoal half an ounce  
Cataplasm of chamomile five pounds  
Mix. As above. *Brera.*

#### CHARCOAL SUPPOSITORY.

R. Cork charcoal  
Wax, each, one part  
Fresh butter two parts  
Mix. As a suppository in hemorrhoids.  
*Cadet.*

### CARBO MINERALIS.

#### MINERAL COAL.

#### ANTHRACOKALI.

R. Carbonate of potassa six ounces  
Lime three and a-half ounces



Water four pints  
 Proceed as in making liquor potassa, and concentrate the clear solution, by boiling in an iron pot, till an oily looking liquid remains, then stir in five ounces of finely powdered mineral coal; remove from the fire, and continue stirring till the whole is reduced to an uniform powder, which is to be immediately put in small, well-stopped bottles. *Polya.*

Much recommended in cutaneous diseases, scrofula, chronic rheumatism, &c. Dose, two grains, twice or thrice a-day.

#### POWDER OF ANTHRACOKALI.

R. Anthracokali two grains  
 Powdered liquorice five grains  
 Mix. Two to four times a-day. *Polya.*

#### COMPOUND POWDER OF ANTHRACOKALI.

R. Anthracokali two grains  
 Washed sulphur three to five grains  
 Powdered liquorice two to three grains  
 Mix. In psora, &c. *Polya.*

R. Anthracokali two grains  
 Calomel sixth of a grain  
 Powdered liquorice three grains  
 Mix. In syphilitic eruptions. *Polya.*

R. Anthracokali  
 Golden sulphuret of antimony half a grain  
 Powdered liquorice three grains  
 Mix. *Polya.*

#### SULPHURETTED ANTHRACOKALI.

R. Prepared like the simple anthracokali, adding four drachms of sulphur to the coal, and dissolving, &c., as above. The dose and uses are the same. *Polya.*

### CARBONIS IODIDUM.

#### IODIDE OF CARBON.

R. Tincture of iodine two fl. ounces  
 Solution of potassa sufficient  
 Add the solution of potassa to the tincture, till the latter loses its color, then add  
 Distilled water sufficient  
 to precipitate the iodide, separate and dry by a gentle heat.

#### OINTMENT OF IODIDE OF CARBON.

R. Iodide of carbon half a drachm  
 Simple ointment six drachms  
 Rub together. As an application to enlarged glands, and obstinate cutaneous affections. *Litchfield.*

### CARDAMINE.

#### CUCKOO FLOWER.

This is the *Cardamine Pratensis*, a small herbaceous plant, a native of Europe, and also found in the more northern parts of America.

*Sex. Syst.* Tetrad. siliquos. *Nat. Syst.* Brassicaceæ.

*Linn. Sp. Pl.* 915. *Baker, Med. Trans.* 1. 442.

The part employed is the flowers, which are said to be diuretic and antispasmodic. It is not used in this country, and appears to be little deserving of notice.

### CARDAMOMUM.

#### CARDAMOM.

Under the name of Cardamom a variety of aromatic capsules have been used in medicine, all possessing the same properties and somewhat the same appearance. That recognized by the U. S. Pharm. is the product of the *Elletaria Cardamomum*, a native of Malabar.

*Sex. Syst.* Monand. monog. *Nat. Syst.* Zingiberaceæ.

*Maton. Trans. Linn. Soc. x.* 254. *Griffith, Med. Bot.* 633.

The part used is the seeds; these are angular, somewhat rough, of a reddish or brownish colour, with an agreeable fragrant odour, and a warm, aromatic taste. They are seldom used alone, being chiefly employed in compound preparations.

#### AROMATIC POWDER.

R. Ginger  
 Cinnamon, each, two ounces  
 Cardamom seeds  
 Nutmeg, grated, each, one ounce  
 Mix, and rub together into fine powder. *U. S. Ph.*

Stimulant and carminative. Dose, ten to thirty grains, in dyspepsia with flatulence.

#### AROMATIC CONFECTION.

R. Aromatic powder five ounces and a-half  
 Powdered saffron half an ounce  
 Syrup of orange peel six ounces  
 Clarified honey two ounces  
 Rub together, and beat into a mass. *U. S. Pharm.*

Used as a stimulant to the stomach, in doses of ten to sixty grains.

#### TINCTURE OF CARDAMOM.

R. Cardamom, bruised, four ounces  
 Diluted alcohol two pints  
 Macerate for fourteen days, express, and filter. *U. S. Ph.*

A pleasant aromatic stimulant. Dose, one to two fl. drachms.

## COMPOUND TINCTURE OF CARDAMOM.

R. Powdered cardamom  
caraway, each, two drachms  
and a-half  
cochineal one drachm  
cinnamon five drachms  
Raisins five ounces  
Proof spirit two pints  
Macerate for fourteen days, express, and  
filter. *Lond. Ph.*

An agreeable aromatic and carminative, in the  
dose of one or two fl. drachms.

## SYRUP OF CARDAMOM.

R. Cardamom water one part  
Sugar two parts  
Dissolve, and boil to proper consistence.  
*Taddei.*

## ETHEREAL EXTRACT OF CARDAMOM.

R. Cardamom in powder at will  
Sulphuric ether sufficient  
Treat, till twice the weight of the seed  
is obtained. Evaporate spontaneously un-  
til deprived of ether. This extract is fluid,  
and consists of volatile and fixed oil. It  
may be used for aromatizing powders, or  
as an addition to pills. *W. Procter.*

## CAROTA.

## CARROT.

The seeds and root of the common carrot,  
*Daucus carota*, a native of Europe, but now ex-  
tensively naturalized in the United States, and  
generally cultivated as an esculent in both coun-  
tries.

*Sex. Syst.* Pentand. digyn. *Nat. Syst.* Apiaceæ.  
Linn. Sp. Pl. 348. Griffith, Med. Bot. 337.

The parts used are the seeds and root; the  
former are aromatic, and have a pungent, bitter-  
ish taste; the root of the wild carrot has a strong  
smell, and an acrid, disagreeable taste; both  
these are similar in their remedial effects, being  
aromatic and diuretic. The root of the cultivated  
variety is milder, and is not used internally, but  
has much reputation as an external application to  
foul ulcers, &c.

## INFUSION OF CARROT SEEDS.

R. Carrot seed half an ounce—one ounce  
Boiling water one pint  
Infuse. To be taken during the day as a  
diuretic, in dropsy and nephritic complaints.

## CATAPLASM OF CARROT ROOT.

R. Root of garden carrot at will  
Scrape down to a pulp. As an application  
to foul and cancerous ulcers. *Wood.*  
R. Root of garden carrot at will  
Boil till soft, and mash. *Dub. Ph.*

This acts merely as an emollient, and is not  
possessed of any virtues beyond those of the  
common poultice.

## EXTRACT OF CARROT ROOT.

R. Clarified juice of carrot root at will  
Evaporate on a water-bath to the consist-  
ence of honey. *Swediaur.*

As an application to ulcerated cancers.

## CARROT OINTMENT.

R. Carrot root, grated, one pound  
Lard twenty ounces  
Yellow wax two ounces  
Heat them together till the water of vege-  
tation is driven off, and the fat has acquired  
a yellow color; then strain for use.

*W. Procter.*

## CARTHAMUS.

## SAFFLOWER.

This is the florets of *Carthamus tinctorius*, a  
native of the Levant and Egypt, but cultivated  
in other parts of Europe and in the United  
States.

*Sex. Syst.* Syngen. æqual. *Nat. Syst.* Aster-  
aceæ.

Linn. Sp. Pl. 1162. Griffith, Med. Bot. 410.

The seeds were formerly much used in medi-  
cine, but are at present seldom resorted to. The  
florets are somewhat stimulant, and, in warm  
infusion, diaphoretic, and are used as a substitute  
for saffron.

## INFUSION OF SAFFLOWER.

R. Safflower two drachms  
Boiling water one pint  
Infuse, and strain.

Used in domestic practice in the exanthemata,  
to bring out the eruption.

## CARUM.

## CARAWAY.

Caraway seeds are the product of *Carum carui*,  
an umbelliferous plant, a native of Europe, and  
cultivated both there and in this country.

*Sex. Syst.* Pentand. digyn. *Nat. Syst.* Apiaceæ.  
Linn. Sp. Pl. 378. Griffith, Med. Bot. 318.

The seeds, the only part used, are of a brown-  
ish color, with a fragrant but peculiar odor, and  
an aromatic, warm taste. They are a pleasant  
aromatic and carminative. Dose, in powder,  
from a scruple to a drachm.

## CARAWAY WATER.

R. Caraway seeds,  
bruised, one pound and a-half  
Proof spirits seven fl. ounces  
Water two gallons  
Mix. Distil a gallon. *Lond. Ph.*

## INFUSION OF CARAWAY.

R. Caraway seeds two drachms  
Boiling water one pint  
Infuse, and strain. *Wood.*

In flatulent colic of infants.

## SPIRIT OF CARAWAY.

R. Bruised caraway twenty-two ounces  
 Proof spirit one gallon  
 Water two pints  
 Mix, and distil one gallon. *Lond. Ph.*  
 As a carminative. In doses of one to two fl. drachms.

## OIL OF CARAWAY.

R. Caraway seeds at will  
 Water sufficient  
 Macerate for some time, distil, and separate the oil. *Van. Mons.*

## EMBROICATION OF CARAWAY.

R. Oil of caraway  
 peppermint, each, one scruple  
 olives one ounce  
 Wine of opium half a fl. drachm  
 Mix. As an embrocation on the abdomen of infants in colic *Radius.*

## CARYOPHYLLUS.

## CLOVES.

Cloves are the unexpanded flowers of *Caryophyllus aromaticus*, a small tree, a native of the Molucca islands, and also cultivated in many other parts of the East Indies.

*Sex. Syst.* Icosand. monog. *Nat. Syst.* Myrtaceæ.

Linn. Sp. Pl. 735. Griffith, Med. Bot. 298.

Cloves are somewhat nail shaped, of a brown color, with a strong fragrant smell, and a permanent, pungent, aromatic taste. They are highly stimulating, and are given as a carminative, and excitant of the gastric functions, in the dose of five to ten grains, but are more used as an adjunct to various officinal compounds.

## INFUSION OF CLOVES.

R. Bruised cloves two drachms  
 Boiling water one pint  
 Macerate for two hours in a covered vessel, and strain. *U. S. Ph.*

Dose, from one to two fl. ounces.

## CLOVE WATER.

R. Bruised cloves one part  
 Water eight parts  
 Digest for twelve hours, and distil twelve parts. As a stimulant and carminative. *Cottereau.*

## SPIRIT OF CLOVES.

R. Bruised cloves one part  
 Alcohol eight parts  
 Macerate for some days, and distil eight parts. *Guibourt.*

## TINCTURE OF CLOVES.

R. Bruised cloves one part  
 Alcohol eight parts

Treat with one-half the alcohol at a time, and filter. *Beral.*

## WINE OF CLOVES.

R. Bruised cloves  
 mace, each, one drachm  
 Red wine one pint  
 Boil, and strain. As a fomentation. *Saunders.*

## OIL OF CLOVES.

R. Bruised cloves at will  
 Water sufficient  
 Macerate for some time, distil, return the product, and redistil several times, separate the oil, which sinks to the bottom. *Van Mons.*

Dose, two to six drops.

## AROMATIC BALSAM OF CLOVES.

R. Oil of cloves  
 nutmeg, each, one scruple  
 Spirit of juniper berries two ounces  
 Mix. As a stimulating friction. *Bories.*

## ODONTALGIC MIXTURE.

R. Oil of cloves twelve drops  
 Tincture of pimperella  
 Sulphuric ether, each, two drachms  
 Aromatic tincture one drachm  
 Mix. To be applied to the carious tooth. *Augustin.*

## CLOVE PLASTER.

R. Yellow wax twenty-two parts  
 Suet twenty-four parts  
 Melt, and add  
 Powdered olibanum sixteen parts  
 cloves eight parts  
 Oil of nutmegs six parts  
 peppermint one part  
 Mix. *Van Mons.*

As an application to the stomach, or over a pained part.

## CLOVE CATAPLASM.

R. Rye flour six or eight spoonfuls  
 Red wine sufficient  
 to make a cataplasm, add  
 Powdered cloves  
 Rased nutmeg, each, a teaspoonful  
 Mix well. As an application to the stomach, to check nausea or pain. *Radius.*

## CLOVE BAG.

R. Powdered cloves two drachms  
 marjoram half an ounce  
 rosemary one ounce  
 Mix, and quilt between folds of linen, dip in Cologne water, and apply to the pit of the stomach, to check nausea. *Phabus.*



## CASCARILLA.

## CASCARILLA.

This is the bark of *Croton eleutheria*, a shrub found in several of the West India islands, and also, perhaps, derived from other species.

*Ser. Syst.* Monœc. monadelph. *Nat. Syst.* Euphorbiaceæ.

Swartz. H. Ind. Oc. 11. 1183. Griffith, Med. Bot. 596.

In rolled fragments, whitish externally, and of a chocolate color within, of an aromatic odor, and a spicy, bitter taste. It is an aromatic tonic, and is useful in debilitated conditions of the stomach and bowels. Dose, in powder, from a scruple to half a drachm.

## COMPOUND CASCARILLA POWDER.

R. Powdered cascarilla ten grains  
opium

ipeacuanha, each, one grain

Mix. To be taken every five hours in obstinate diarrhœa. *Radius.*

R. Powdered cascarilla one drachm  
hartshorn  
cuttlefish bone, each, four  
drachms  
amber two drachms

Mix. One drachm to be taken in a glass of sugar and water, at bedtime, against nocturnal pollutions. *Pierquin.*

## INFUSION OF CASCARILLA.

R. Bruised cascarilla one ounce  
Boiling water one pint

Macerate for two hours in a covered vessel, and strain. *U. S. Ph.*

Dose, two fl. ounces.

## ALKALINE INFUSION OF CASCARILLA.

R. Bruised cascarilla three ounces  
Carbonate of potassa two drachms  
Boiling water sixteen fl. ounces

Macerate for two hours, and filter. Dose, a spoonful, two or three times a-day, as an antacid and tonic. *Palat. Ph.*

## EXTRACT OF CASCARILLA.

R. Bruised cascarilla one part  
Alcohol five parts

Treat the cascarilla several times with the alcohol, distil, and evaporate the residue. Dose, from ten grains to a drachm. *Guibourt.*

## MIXTURE OF EXTRACT OF CASCARILLA.

R. Extract of cascarilla one drachm  
White sugar six drachms  
Oil of chamomile twenty drops  
Tragacanth half a drachm  
Wine of opium twenty-five drops  
Cinnamon water two fl. ounces  
Peppermint water four fl. ounces

Mix. A spoonful every hour in dysentery. *Augustin.*

## TINCTURE OF CASCARILLA.

R. Powdered cascarilla five ounces  
Proof spirit two pints  
Macerate fourteen days, and filter. *Lond. Ph.*

## COMPOUND WINE OF CASCARILLA.

R. Powdered cascarilla one ounce and a-half  
Contused orange peel one ounce  
cinnamon two drachms  
White wine twenty-seven fl. ounces  
Digest for twenty-four hours, and filter. As a stomachic and tonic, in doses of two ounces, four times a-day. *Phœbus.*

## CASSIA.

## PURGING CASSIA.

Cassia is the fruit or pod of the *Cassia fistula*, a large tree, a native of Egypt and many parts of Asia, and cultivated in most tropical regions.

*Ser. Syst.* Decand. monog. *Nat. Syst.* Fabacææ. Linn. Sp. Pl. 540. Griffith, Med. Bot. 253.

The pods are about a foot in length, cylindrical, of a dark brown color, with two longitudinal furrows on one side, and one on the other. They are internally divided into numerous cells, each containing one seed enveloped in a soft pulp. This latter, which is the part used, has a faint nauseous smell, and a sweet, mucilaginous taste. It is laxative, in doses of one or two drachms, and purgative in those of one or two ounces.

## PULP OF PURGING CASSIA.

R. Purging cassia, bruised, sufficient  
Pour boiling water on it to soften the pulp, strain, and evaporate to proper consistence. *U. S. Pharm.*

## CONFECTION OF CASSIA.

R. Cassia pulp half a pound  
Manna two ounces  
Tamarind pulp one ounce  
Syrup of roses eight fl. ounces  
Mix well, and evaporate to proper consistence. *Lond. Ph.*

Slightly laxative.

## MIXTURE OF CASSIA PULP.

R. Pulp of cassia one ounce  
Infusion of rhubarb a drachm and a-half  
Syrup of roses  
Manna, each, one ounce  
Mix well. A mild laxative. *Pierquin.*

## CASSIA MARILANDICA.

## AMERICAN SENNA.

This species is an indigenous perennial plant,



with showy, bright yellow flowers, growing in moist places and on the banks of streams.

*Ser. Syst.* Decand. monog. *Nat. Syst.* Fabacææ.  
*Linn. Sp. Pl.* 541. *Griffith, Med. Bot.* 260.

The leaves, which are the official portions, are usually exposed for sale in small packages, like the other herbs put up by the Shakers. They have a faint, unpleasant odor, and a nauseous taste like senna, of which they possess all the qualities, but are not quite as active.

#### INFUSION OF AMERICAN SENNA.

R. American senna one ounce and a-half  
Coriander seed, bruised, one drachm  
Boiling water one pint  
Macerate in a covered vessel one hour, and strain.  
*Martin.*

### CASTOREUM.

#### CASTOR.

Castor is a peculiar substance obtained from membranous follicles in the *Castor fiber*, situated between the organs of generation and the anus. It is in the form of solid, unctuous masses, contained in small, wrinkled, brownish sacs. It has a strong, unpleasant smell, and a bitter, acrid taste. It is stimulant and antispasmodic, and has been much praised in the neuroses. In this country it is not much used. Dose, from ten to twenty grains.

#### COMPOUND POWDER OF CASTOR.

R. Castor twelve grains  
Powdered eascarilla one scruple  
Magnesia a scruple and a-half  
Mix, and divide into three powders.

*Saunders.*

R. Castor  
Powdered valerian  
Sugar, each, ten grains  
Mix, and divide into three doses. *Phæbus.*  
As antispasmodics.

#### BOLUS OF CASTOREUM.

R. Assafetida  
Valerian  
Castor  
Amber, each, half an ounce  
Camphor one scruple  
Syrup sufficient  
Mix, and form boluses of ten grains each. Said to be efficacious in hysteria, neuralgia, and vertigo.  
*Foy.*

#### CASTOREUM PILLS.

R. Assafetida one drachm  
Galbanum  
Myrrh, each, half a drachm  
Castoreum fifteen grains  
Tincture of valerian sufficient  
Beat together, and divide into seventy-two pills. Dose, three to eight, three times a-day, in hysteria. *Phæbus.*

#### PILLS OF CASTOR AND SUCCINIC ACID.

R. Castor one drachm  
Succinic acid half a drachm  
Extract of gentian sufficient  
Beat together, and form twenty-four pills.  
Three, morning and night, in hysteria.  
*Ellis.*

#### TINCTURE OF CASTOR.

R. Bruised castor two ounces  
Aleohol two pints  
Digest for seven days, express, and filter.  
*U. S. Ph.*

Dose from thirty drops to two fl. drachms.

#### ETHEREAL TINCTURE OF CASTOR.

R. Bruised castor two ounces  
saffron one ounce  
Spirit of sulphuric ether twelve ounces  
Digest for twenty four hours, and filter.  
As an antispasmodic. In dose of thirty drops.  
*Spielmann.*

#### AMMONIATED TINCTURE OF CASTOR.

R. Bruised castor two ounces and a-half  
Contused assafetida two drachms  
Spirit of ammonia two pints  
Digest for seven days, in a closed vessel, express, strain, and filter.  
*Ed. Ph.*

A powerful stimulant, and antispasmodic, in cases of spasm of the stomach, hysteria, &c. Dose, thirty drops to two fl. drachms.

#### COMPOUND TINCTURE OF CASTOR.

R. Assafetida two drachms  
Opium half a drachm  
Oil of amber one drachm  
Castor half an ounce  
Aleohol four ounces  
Digest for four days, express, and filter.  
Dose, thirty to forty drops in wine, in hysteria.  
*Ferrara. Ph.*

#### COMPOUND PLASTER OF CASTOR.

R. Wax plaster sixteen ounces  
Soap four ounces  
Melt together, and add, on cooling,  
Camphor one ounce  
Castor half an ounce  
Incorporate well. Highly praised in headache, rheumatism, toothache, &c.  
*Giordano.*

#### COMPOUND SPIRIT OF CASTOR.

R. Castor half an ounce  
Assafetida two drachms  
Oil of amber one drachm  
savine  
rue, each, half a drachm  
Aleohol ten ounces  
Digest, distil, and add  
Empyreumat. carb. of ammonia two ounces

Camphor one drachm  
Distil again. Dose, twenty to forty  
drops. *Cottureau.*

## CATALPA.

## CATALPA.

The *Catalpa cordifolia* is a beautiful native tree, principally found in the southern and south-western States.

*Ser. Syst. Diand. monog. Nat. Syst. Bignoniaceæ.*

*Elliot. Bot. i. 24. Lindley, Flor. Med. 499.*

The bark is said to be vermifuge, but the part used in medicine is principally the pods. These have been found efficacious in asthma.

## DECOCTION OF CATALPA PODS.

R. Catalpa pods half an ounce  
Water sufficient  
to obtain eight ounces of decoction; add

Oxymel of squills half an ounce

R. Catalpa pods half an ounce  
Seneca two drachms  
Water sufficient

to obtain eight ounces of decoction; add  
Oxymel of squills one ounce

In spoonful doses, in chronic, nervous asthma. *Brera.*

R. Catalpa pods three or four  
Water twelve fl. ounces

Boil down to six ounces, to be given in two doses, morning and night.

*Antomachi.*

## CATARIA.

## CATNEP.

This is the leaves, or whole herb of *Nepeta Cataria*, a perennial herbaceous plant, a native of Europe, and naturalized in the United States.

*Ser. Syst. Didynam. gymnos. Nat. Syst. Lamiales.*

*Linn Sp. Pl. 797. Griffith, Med. Bot. 512.*

It has a peculiar, somewhat unpleasant odor, and a bitterish, aromatic taste. It is stimulant, carminative, &c., and is used in the flatulent colic of infants, and as an emmenagogue, &c.

## INFUSION OF CATNEP.

R. Catnep two drachms  
Boiling water. eight ounces

Infuse in a covered vessel. Dose, a teaspoonful occasionally, whilst hot, for an infant in flatulent colic; to be taken freely, as a diaphoretic, or emmenagogue.

## CATECHU.

## CATECHU.

Catechu is an extract procured from the wood of *Acacia catechu*, and also from other trees.

The *Acacia catechu* is a native of the East Indies, and is now cultivated in some of the West India islands.

*Ser. Syst. Polygam. monœc. Nat. Syst. Fabaceæ.*

*Linn. Sp. Pl. 409. Griffith, Med. Bot. 268.*

Catechu comes in masses of various forms, of a rusty brown color externally, but paler within. It is inodorous, but has a bitter and astringent taste, followed by a sensation of sweetness. It principally consists of tannin and extractive. It is tonic and astringent, and is used in cases where astringents are required. The dose is from ten grains to half a drachm, repeated as required.

## COMPOUND POWDER OF CATECHU.

R. Powdered catechu fifteen grains  
salts two grains

Mix, and make powder; to be taken after each liquid stool, in diarrhoea from a weakened condition of the bowels.

*A. T. Thomson.*

R. Powdered catechu  
cascarilla  
gum Arabic

Aromatic powder equal parts

Mix. Dose, a scruple every two hours, in chronic diarrhoea. *Augustin.*

## BOLUS OF CATECHU.

R. Powdered catechu twenty-four grains

Extract of opium two grains

Conserve of roses sufficient

Mix, and form two boluses, one to be taken morning and evening, in chronic diarrhoea.

*Foy.*

## PILLS OF ALUM AND CATECHU.

R. Alum six grains

Extract of opium

Catechu each one grain

Mix, and divide into six pills, one to be given every two to four hours. In passive hemorrhage and atonic mucous discharges.

*Ellis.*

## COMPOUND CATECHU BOLUS.

R. Powdered catechu one scruple

Confection of opium twelve grains

Aromatic confection sufficient

Make a bolus, to be taken twice a-day, in inordinate flow of the menses.

*Babington.*

R. Powdered catechu twelve parts

alum six parts

opium two parts

Syrup of red roses sufficient

Form a mass, and divide into pills of six grains each. One or two a-day, in the decline of gonorrhœa. *Foy.*

## PILLS OF CATECHU AND LIQUORICE.

R. Catechu half a drachm

Gum Arabic

Extract of liquorice, each,

two drachms

Mastic

one drachm

Syrup of mallows

sufficient

Form mass, and divide into pills of three grains each. Four, three times a-day, in chronic catarrh.

*Van Mons.*

## LOZENGES OF CATECHU.

R. Catechu

one ounce

Sugar

half an ounce

Cloves

one scruple

Essence of citron

half a scruple

Mucilage of tragacanth

sufficient

Beat into mass, and divide into lozenges of ten grains, each. One, occasionally, to arrest fetor of breath.

*Brunswick Ph.*

## ELECTUARY OF CATECHU.

R. Catechu

Kino, each,

four ounces

Cinnamon

Nutmeg, each,

one ounce

Opium diffused in a little

sherry

one drachm and a-half

Syrup of red roses, reduced to the consistence of honey, one pint and a-half

Pulverize the solids, mix the opium and syrup, add the powders, and beat into a mass.

*Dub. Ph.*

In diarrhœa and chronic dysentery, in dose of half a drachm to a drachm.

R. Catechu

Balsam of tolu, each,

one drachm

Peruvian bark

one ounce

Syrup of red roses

sufficient

Beat together. One drachm morning and evening, in leucorrhœa and gonorrhœa.

*Brera.*

## INFUSION OF CATECHU.

R. Catechu

one drachm

Boiling water

one pint

Digest for six hours, and strain.

*Guilbort.*

## COMPOUND INFUSION OF CATECHU.

R. Powdered catechu

half an ounce

Bruised cinnamon

one drachm

Boiling water

one pint

Macerate for an hour in a covered vessel, and strain.

*U. S. Ph.*

Dose, from one to three fl. ounces, three or four times a-day.

## TINCTURE OF CATECHU.

R. Catechu

three ounces

Cinnamon, bruised,

two ounces

Diluted alcohol

two pints

Macerate for fourteen days, express, and filter.

*U. S. Ph.*

A pleasant astringent. Dose, thirty drops to three fl. drachms.

## CATECHU COLLUTORY.

R. Catechu

Myrrh, each,

eight parts

Balsam of Peru

one part

Spirit of cochlearia

Alcohol, each,

twenty-four parts

Mix, and digest for four days, and filter.

As a mouth-wash, in a spongy condition of the gums.

*Saunders.*

## MIXTURE OF CATECHU AND LOGWOOD.

R. Extract of logwood

three drachms

Tincture of catechu

two fl. drachms

Water

seven fl. ounces

Mix. Two spoonfuls, every three or four hours, in chronic stages of diarrhœa and dysentery.

*Ellis.*

## ANTI EMETIC MIXTURE.

R. Catechu

one drachm

Columbo

thirty grains

Winter's bark

twenty grains

Boiling water

four ounces

Mix, and digest for eight hours, strain, and add

Syrup of red roses

one ounce

In spoonful doses.

*Pierquin.*

## INJECTION OF CATECHU.

R. Catechu

Myrrh, each,

one drachm

Dissolve in

Lime water

four ounces

and strain. As an injection, in chronic leucorrhœa and gonorrhœa.

## AROMATIC PASTILLES OF CATECHU.

R. Extract of liquorice

Water, each,

three ounces and a-half

Dissolve on a water-bath, and add

Powdered catechu

four hundred and

sixty-two grains

gum Arabic

two hundred

thirty-one grains

Evaporate to the consistence of an extract, and incorporate,

Mastic

Cascarilla

Charcoal

Orris root, each,

thirty grains

Reduce to proper consistence, remove from fire, and add

Oil of peppermint

thirty drops

Tincture of ambergris

musk, each,

ten drops

Mix, and form into one-grain pills. Used to aromatize the breath.

*Redwood.*



## CEANOTHUS.

## NEW JERSEY TEA.

Several species of *Ceanothus* have medical properties, but the only one in use in this country, is the *C. Americanus*, a suffruticose plant, found in most parts of the United States.

*Sex. Syst.* Pentand. trigyn. *Nat. Syst.* Rhamnacæ.

Linn. Sp. Pl. 284. Griffith, Med. Bot. 218.

The leaves and root are bitter and astringent, but the root is the most active. They have been used in a variety of cases, to which astringents are applicable.

## DECOCTION OF NEW JERSEY TEA.

R. New Jersey tea root      two drachms  
Water      one pint

Boil for a quarter of an hour, and strain. Said by Ferrein to be efficacious in gonorrhœa, and syphilis; and by Dr. Hubbard, in dysentery, and also as a gargle in aphthous sore mouth, and in ulcerations of the fauces.

## CENTAUREA BENEDICTA.

## BLESSED THISTLE.

An annual plant, native of the south of Europe, and become naturalized in some parts of the United States.

*Sex. Syst.* Syngen. frust. *Nat. Syst.* Asteracæ.

Linn. Spl. Pl. 1294. Griffith, Med. Bot. (*Cnicus*.) 409.

The whole herb is used; it has a faint nauseous odor, and a very bitter taste. It is used as a tonic, diaphoretic, or emetic. Dose of powder, as tonic, a scruple to a drachm.

## INFUSION OF BLESSED THISTLE.

R. Blessed thistle      three drachms  
Boiling water      one quart

Infuse for half an hour, and strain. As a diaphoretic. *Fr. Cod.*

R. Blessed thistle      half an ounce  
Cold water      one pint

Infuse, and strain. As a tonic, in the dose of two fl. ounces. *Wood.*

## WINE OF BLESSED THISTLE.

R. Blessed thistle      one ounce and a-half  
Columbo      three drachms  
Cinnamon      two drachms  
Wine      two pints

Macerate for twenty-four hours, and strain. Dose, one to four spoonfuls in the morning, as a stomachic. *Wirttemberg Ph.*

## CENTAURIUM.

## CENTAURY.

The herbs or flowering heads of *Erythræa centaurium*, a small annual plant, indigenous to many parts of Europe.

*Sex. Syst.* Pentand. monog. *Nat. Syst.* Gentianacæ.

Linn. (*Chironia*.) Sp. Pl. 332. Griffith, Med. Bot. 459.

This plant is very bitter, and is analogous in its properties to gentian. In this country, its use has been superseded by the American centaury or sabbatia. Dose of the powder, from thirty grains to a drachm.

## PORTLAND POWDER.

R. Centaury  
Germander  
Gentian  
Round aristolochia  
Teucrium      equal parts  
Powder, and mix. Once highly celebrated in the cure of gout.

## EXTRACT OF CENTAURY.

R. Centaury      one part  
Hot water      eight parts  
Macerate in one-half the water, express, and strain; repeat the process with the remainder of the water, unite the liquids, and evaporate. *Guibourt.*

## PILLS OF EXTRACT OF CENTAURY.

R. Extract of centaury      one drachm  
Myrrh      two drachms  
Balsam of Peru      one scruple  
Mix, and form into pills of three grains. Four, three times a-day, as a tonic and stomachic. *St. Marie.*

## COMPOUND WINE OF CENTAURY.

R. Centaury  
Apocynum  
Madder, each,      one ounce  
White wine  
Water, each,      a pint and a-half  
Boil down to two-thirds, and add to the strained liquid  
Syrup of orange peel      two ounces  
A cupful, morning and evening, in jaundice. *Beral.*

## MIXTURE OF EXTRACT OF CENTAURY.

R. Extract of centaury      one drachm  
Bitter almonds      two drachms  
Chamomile water      two ounces  
Rub well together, and strain. As a febrifuge. *Foy.*

## CETACEUM.

## SPERMACETI.

A peculiar concrete substance, obtained from the head of *Physceter macrocephalus*, or spermaceti whale. It is white, semi-transparent, friable, soft, somewhat oily to the touch, insipid, but with a faint odor. It has been used as a demulcent, and also enters into the composition of several ointments and cerates.



## COMPOUND POWDER OF SPERMACETI.

R. Spermaceti two drachms  
 Nitrate of potassa one drachm  
 Orris root  
 Sugar, each, one ounce  
 Powder well, and mix. A teaspoonful, three or four times a-day, in catarrh.

*Radiis.*

## SPERMACETI MIXTURE.

R. Spermaceti two drachms  
 Sugar three drachms  
 Paregoric elixir half fl. ounce  
 Water eight fl. ounces

Rub spermaceti and sugar together with the yolk of an egg; add the water and paregoric gradually. A tablespoonful, several times a-day. In catarrh. *Ellis.*

R. Spermaceti half an ounce  
 Gum arabic two drachms  
 Syrup half an ounce  
 Water of bitter almonds one drachm  
 Water two ounces and a-half

Rub together, and strain. A dessertspoonful every two hours. In catarrh. *Phœbus.*

R. Spermaceti two drachms  
 Olive oil one drachm  
 Powdered gum Arabic half an ounce  
 Water four fl. ounces

Triturate the spermaceti with the oil, until reduced to a paste, then add the gum, and lastly the water, gradually. *W. Procter.*

R. Spermaceti two drachms  
 Yolk of egg one  
 Powdered gum Arabic two drachms  
 Paregoric elixir six drachms  
 Antimonial wine four drachms  
 White sugar three drachms  
 Water six ounces

Mix. Rub the spermaceti with the yolk of egg, then add the other ingredients separately; when well incorporated, introduce the water gradually. A tablespoonful every two or three hours to an adult. Useful in catarrh, especially of measles. *Dewees.*

## SPERMACETI OINTMENT.

R. Spermaceti six drachms  
 White wax two drachms  
 Olive oil three fl. ounces

Mix over a gentle fire, and stir till cold. *Lond. Ph.*

Mild dressing for open surfaces.

## OINTMENT OF SPERMACETI AND ROSE WATER.

R. Rose water  
 Oil of almonds each two fl. ounces  
 Spermaceti half an ounce  
 White wax one drachm

Melt together, by a water-bath, the oil, spermaceti and wax; add rose water, and stir till cold. *U. S. Ph.*

A pleasant and cooling application to irritable surfaces, well known as *cold cream*.

## COLD CREAM WITHOUT SPERMACETI.

R. White wax one ounce  
 Oil of almonds four fl. ounces  
 Rose water two fl. ounces  
 Borax half a drachm  
 Oil of roses five minims

Dissolve the wax in the oil of almonds, by a gentle heat, also dissolve the borax in the rose water, and add the solution to the heated mixture, stirring till cold, then add the oil of roses. *E. Turnbull.*

## SPERMACETI CERATE.

R. Spermaceti one ounce  
 White wax three ounces  
 Olive oil six fl. ounces

Melt wax and spermaceti together, then add the oil previously heated, and stir till cold. *U. S. Ph.*

An excellent dressing for blisters, wounds, &c.

## SPERMACETI LIP SALVE.

R. Spermaceti  
 White wax, each, half an ounce  
 Melt, and add

Oil of almonds one ounce  
 lavender twenty drops  
 bergamot ten drops  
 cloves two drops

Rub well together. *Niemann.*

R. Spermaceti one ounce and a-half  
 White wax nine drachms  
 Oil of almonds twelve ounces  
 Alkanet root two ounces  
 Otto of roses one drachm

Digest the first four ingredients in the heat of a water-bath for four hours, strain, and add the otto of roses. *Gray.* *Note*

## SPERMACETI LINIMENT.

R. Spermaceti  
 White wax, each, half a drachm  
 Oil of almonds one ounce  
 White lead  
 Litharge, each, twenty grains  
 Gum lac sufficient

Mix. As a cosmetic, but the presence of the lead requires it to be used with caution. *Pierquin.*

## SULTANA OINTMENT.

R. Spermaceti eight parts  
 Butter of cacao sixteen parts  
 Oil of almonds thirty-two parts  
 Balsam of Peru one part

*Note. A very good formula is as follows: White Wax, Spermaceti, each 2 drachms, Oil of Sweet Almonds 2 oz, Oil of Bergamot 30 drops.*

Melt together, and add

Orange-flower water  
Stir constantly till cold.

R. Spermaceti

White wax, each,  
one drachm and a-half  
three ounces

Oil of almonds

Melt together, and add

Rose water  
Tincture of benzoin  
thirty drops  
*Taddei.*

Mix well.

## CETRARIA.

### ICELAND MOSS.

This is a lichen found in great abundance in the northern regions of both continents.

*Sex. Syst.* Cryptog. lichen. *Nat. Syst.* Lichenaceæ.

When dried it is inodorous, but has a bitter, mucilaginous taste. It is demulcent, tonic, and nutritious, and is useful in pulmonary and other complaints, in which the local disease is attended with a debility of the digestive organs, or of the general system. Dose of the powder, thirty grains to a drachm.

### DECOCTION OF ICELAND MOSS.

R. Iceland moss half an ounce

Water one pint and a-half

Boil down to a pint; express, and strain.

*U. S. Ph.*

To be taken during the twenty-four hours.

R. Iceland moss one ounce and a-half

Water one quart

Macerate the moss in a weak solution of carbonate of potassa, before subjecting it to decoction.

Boil, and strain.

*Van Mons.*

In this preparation the bitter principle is extracted by the potassa, and the result is a mere mucilaginous demulcent.

### ICELAND MOSS JELLY.

R. Iceland moss two parts

Water twenty parts

Boil down to six parts and strain, then add

Sugar four parts

Set by to cool.

*Augustin.*

### ICELAND MOSS MIXTURE.

R. Iceland moss two ounces

Hartshorn shavings one ounce

Water one quart

Boil down to a pint, and strain, add

Wine of opium fifteen drops

In phthisis, to be taken during the day.

*Brera.*

R. Iceland moss

two drachms

Powdered salep

ten grains

cinnamon eight grains

Water twelve fl. ounces

Boil to six ounces, and add

Syrup sufficient

Said to be useful in phthisis, leucorrhœa, and whooping-cough, in doses of four ounces, three or four times a-day. *Augustin.*

R. Decoction of Iceland

moss seven fl. ounces and a-half

Diluted sulphuric acid one fl. drachm

Syrup four fl. drachms

Laudanum fifty drops

Mix. A wineglassful, three times a-day, in phthisis. *A. T. Thomson.*

### ICELAND MOSS CHOCOLATE.

R. Fine chocolate four pounds

Sugar two pounds

Powdered Iceland

moss, one pound and a-half

Tragacanth

Cinnamon, each, four ounces

Water sufficient

Rub into a uniform paste.

*Cadet.*

### CETRARINE.

R. Iceland moss,

in coarse powder, one pound

Alcohol, .883 four pounds

Boil for half an hour, permit to cool, till no vapors are given off, express, and add to fluid

Muriatic acid three drachms

and four times its bulk of distilled water; let rest for a night in a closed matrass; then decant, throw deposit on filter, and press; while still moist, wash with alcohol or ether; then treat with boiling alcohol, filter, and permit cetrarine to precipitate.

*Herberger.*

### POWDER OF CETRARINE.

R. Cetrarine

Gum Arabic, each, two grains

White sugar half a scruple

Useful in intermittent fevers, in doses of eight grains every two hours during the apyrexia. *Muller.*

## CHELIDONIUM.

### CELANDINE.

The herb of *Chelidonium majus*, a perennial herbaceous plant, native of Europe, but generally naturalized in this country.

*Sex. Syst.* Polyand. polyg. *Nat. Syst.* Papaveraceæ.

Linn. Sp. Pl. 723. Griffith, Med. Bot. 130.

Exudes, when broken, an orange-colored, fetid juice. Its taste is extremely bitter and acrid, leaving a burning sensation. The root is

the most powerful. It has been used as a drastic hydragogue, and also in scrofula, &c. The dose of the dried root is half a drachm to a drachm; of the fresh juice, thirty to forty drops.

## EXTRACT OF CELANDINE.

R. Juice of celandine at will  
Boil so as to coagulate; strain, evaporate, and at the close of evaporation add the coagulum. *Van Mons.*

Dose, five to fifteen grains, as a hydragogue purgative.

## PILLS OF CELANDINE.

R. Extract of celandine  
Gum ammoniac, each, one drachm and a-half  
Soap one drachm  
Mix, and form pills of four grains. Two or three a-day, in engorgements of the viscera, especially of the spleen.

*Schubarth.*

## EXTRACT OF CELANDINE MIXTURE.

R. Extract of celandine two drachms  
henbane one scruple  
Sulphate of potassa one ounce  
Tartar emetic one grain  
Elder water six ounces  
Oxymel of squills one ounce  
Mix. A dessertspoonful every two hours, as a hydragogue. *Augustin.*

## CHENOPODIUM.

## WORMSEED.

This is the fruit of *Chenopodium anthelminticum*, a native plant, found in most parts of the country.

*Sex. Syst.* Pentand. digyn. *Nat. Syst.* Chenopodiaceæ.

The fruit is in small grains, of a greenish yellow color, with a bitterish, aromatic, pungent taste, and a nauseous peculiar smell. Besides the seeds, the expressed juice of the whole plant is used, and the essential oil. They are all efficient anthelmintics. The first are given in the form of an electuary; the second in tablespoonful doses.

## DECOCTION OF WORMSEED.

R. Fresh leaves one ounce  
New milk one pint  
Orange peel two drachms  
Boil, and strain. Dose, a wineglassful, twice a-day.

## OIL OF WORMSEED.

R. Wormseed at will  
Water sufficient  
to cover the seed; infuse for some hours, distil, and separate the oil. Dose, from four to eight drops for a child, night and

morning, for three or four days, to be followed by a cathartic. *Coxe.*

## WORMSEED OIL MIXTURE.

R. Oil of wormseed one drachm  
Sugar  
Gum Arabic, each, one drachm and a-half

Mix, and add

Mint water two and a-half fl. ounces  
A teaspoonful, four times a-day for two days, to a child, to be followed by a purge. *Ellis.*

## CHIMAPHILA.

## PIPSISSEWA.

The leaves of *Chimaphila umbellata*, an ever-green plant, found in the northern portions of both continents.

*Sex. Syst.* Decand. monog. *Nat. Syst.* Pyrolaceæ.  
Linn. (*Pyrola*) Sp. Pl. 568. Griffith, Med. Bot. 421.

Pipsissewa has a peculiar and rather pleasant odor, especially when fresh, and an astringent, bitter, and somewhat sweetish taste. It is tonic, diuretic, and astringent, and has been much used in nephritic complaints, dropsy, &c.

## DECOCTION OF PIPSISSEWA.

R. Pipsissewa one ounce  
Water one pint and a-half  
Boil down to a pint, and strain. *U. S. Ph.*

To be taken during the day, in dropsy and chronic affections of urinary organs.

## COMPOUND DECOCTION OF PIPSISSEWA.

R. Decoction of pipsissewa one pint  
Solution of carbonate of potassa two drachms  
Mix. Four tablespoonfuls, three times a-day, in same cases as above. *Foy.*

R. Pipsissewa half an ounce to one ounce  
Water twelve fl. ounces  
Boil to six ounces, and add

Gin two ounces  
Let stand for two hours, and strain. Two spoonfuls, four times a-day, in dropsy.

*Radius.*

R. Pipsissewa six drachms  
Water twelve ounces  
Boil to six ounces, and add at close  
Senna two drachms  
Strain. A tablespoonful every two hours as a diuretic. *Radius.*

## EXTRACT OF PIPSISSEWA.

R. Pipsissewa one pound  
Water one gallon  
Macerate for twenty-four hours, boil down to two pints, strain, and evaporate to proper consistence. Dose, ten to thirty grains.



## PIPSISSEWA PILLS.

R. Extract of pipsissewa  
 Resin of guaiacum,  
     each,                      one drachm and a-half  
 Precipitated sulph. of  
     antimony                      twelve grains  
 Beat together, and make pills of two grains.  
 Dose, five, twice a-day, in arthritic affec-  
 tions.

## PIPSISSEWA SYRUP.

R. Powdered pipsissewa      four ounces  
 Water                      eight fl. ounces  
 Macerate for thirty-six hours, percolate so  
 as to obtain a pint of fluid, evaporate one-  
 half, and add  
     Sugar                      sixteen ounces  
 One to two tablespoonfuls at a time.

W. Procter.

## PIPSISSEWA BEER.

R. Pipsissewa                      half a pound  
 Water                      one gallon  
 Boil, strain, and add  
     Brown sugar                      one pound  
     Powdered ginger                      half an ounce  
     Yeast                      sufficient  
 To produce fermentation. When this has  
 taken place, keep in well-stopped bottles.  
 Dose, a half-tumblerfull, three or four  
 times a-day. In strumous affections, espe-  
 cially of the joints. Dr. I. Parrish.

## CHIRETTA.

## CHIRETTA.

This is the herb and root of *Agathotes chirayta*,  
 a native of the northern mountainous parts of  
 India.

Sex. Syst. Pentand. digyn. Nat. Syst. Gentia-  
 naceæ.

Don. Phil. Mag., 1836. Griffith, Med. Bot.  
 462.

The whole plant is bitter, but the root most so;  
 it is inodorous. It appears to have the same pro-  
 perties as gentian, and is applicable to the same  
 cases. Dose, of powder, is twenty grains.

## INFUSION OF CHIRETTA.

R. Chiretta                      four drachms  
 Boiling water                      one pint  
 Infuse for two hours, and strain. Ed. Ph.

Dose, one to two fl. ounces as a simple tonic  
 bitter.

## TINCTURE OF CHIRETTA.

R. Chiretta                      five ounces  
 Diluted alcohol                      two pints  
 Macerate for fourteen days, and filter.  
 Dose, a teaspoonful. Dunglison.

## CHLORINUM.

## CHLORINE.

This is an elementary, gaseous fluid, of a  
 greenish yellow color, and a peculiar, penetrat-  
 ing smell. It has been used as an inhalation in  
 a diluted state, in diseases of the lungs, and also  
 as a fumigation in diseases of the liver, &c., and  
 also as a disinfectant.

## CHLORINE.

R. Peroxide of manganese      one part  
 Common salt                      three parts  
 Sulphuric acid  
 Water, each,                      two parts  
 Mix the acid and water, and pour on the  
 other substances in powder. Paris Cod.

## CHLORINE WATER.

R. Dried muriate of  
     soda                      one hundred parts  
 Oxide of manganese                      thirty parts  
 Sulphuric acid                      eighty-seven parts  
 Water      one hundred and twenty parts  
 Add the acid gradually to the water; when  
 cold, pour on the other substances in pow-  
 der, and put into a retort; then with a  
 gradually increased heat, let the gas that  
 escapes be transmitted through two hun-  
 dred parts of distilled water; the process  
 is concluded, when effervescence in the  
 retort has subsided. Dub. Ph.

To be kept in well-stopped bottles, and in  
 the dark. Chlorine water is stimulant, and an-  
 tiseptic, and has been used in a variety of dis-  
 eases. (See Dunglison, *New Rem.* 170 *et seq.*)  
 The dose is from one to four fl. drachms, pro-  
 perly diluted.

## CHLORINE COLLUTORY.

R. Chlorine water                      half an ounce  
 Syrup of mallows                      one ounce  
 Mix. In aphthous sore mouth. Radius.  
 R. Chlorine water                      half an ounce  
 Infusion of sage                      six ounces  
 Honey of roses                      one ounce  
 Mix. In same cases. Radius.

## CHLORINE GARGLE.

R. Tragacanth                      twelve grains  
 Distilled water                      four fl. ounces  
 Chlorine water  
 Syrup, each,                      half an ounce  
 Mix. As a gargle in ulceration, and  
 chronic inflammation of the mouth, and  
 fauces. Foy.

## CHLORINE INJECTION.

R. Chlorine water                      half a drachm  
 Distilled water      one ounce and a-half  
 Extract of opium                      fifteen grains  
 Mix. As an injection in ulcers of the  
 uterus. Phœbus.



## CHLORINE CLYSTER.

- R. Chlorine water two drachms  
 Starch four drachms  
 Extract of opium half a grain  
 Water six ounces  
 Mix. As an enema in the diarrhoea of consumptive patients. *Cadet.*

## CHLORINE MIXTURE.

- R. Chlorine water two to four drachms  
 Decoction of mallows two ounces and a-half  
 Mix. A teaspoonful every hour, in softening the stomach in children. *Radiis.*  
 R. Chlorine water two ounces  
 Syrup six ounces  
 Mix. A spoonful every two hours, in typhoid fevers. *Swedlaur.*  
 R. Chlorine water two drachms  
 Strawberry water one ounce and a-half  
 Quince mucilage  
 Syrup of mallows, each, six drachms  
 Mix. A teaspoonful every two hours, to children in searlatina. *Radiis.*

## CHLORINE OIL.

- R. Olive oil at will  
 Pass a current of chlorine through it, at the end of two or three days, wash it with cold water. As an application to tinea, and lepra. *Deimann.*

## CHLORINE OINTMENT.

- R. Chlorine water one part  
 Lard eight parts  
 Triturate well together. Employed in itch. *Augustin.*

## CHLORINE LINIMENT.

- R. Chlorine water one fl. drachm  
 Olive oil one fl. ounce  
 Mix well. In itch, tinea, and herpes. *Deimann.*  
 R. White wax two drachms  
 Melt by a gentle heat, and add  
 Almond oil sufficient  
 to make a liniment; on cooling, add  
 Chlorine water one drachm and a-half  
 As an application to foul ulcers. *Ludwig.*

## CHLOROFORMUM.

## CHLOROFORM.

This has received various names, as *Chloride of Carbon*, *Chloride of Formyl*, *Chloric Ether*, *Terchloride of Formyl*, &c. It is a transparent, heavy fluid, of a peculiar, fragrant, ethereal, apple-like odor, and a slightly acid, intensely sweet taste. In large doses it is a narcotic poison; in medicine, a stimulant, sedative, antispasmodic anodyne, and anæsthetic; for which latter purpose it has

attained much celebrity. The usual dose, when inhaled, is a fl. drachm, to be increased in a few minutes, if no effect is produced. The best plan of inhaling is to twist a handkerchief into the form of a bird's nest, wet this with the chloroform, and apply it to the mouth and nose. The dose, internally, is from five to twenty minims.

## R. Powdered chloride

- of lime four pounds  
 Water twelve pounds  
 Alcohol twelve fl. ounces

Mix, in a capacious still or retort, and distil as long as a dense liquid, which sinks in the water that comes over with it, is produced. Separate this, agitate it with sulphuric acid, and distil it from carbonate of barytæ. *Dumas.*

## EMULSION OF CHLOROFORM.

- R. Chloroform six drachms  
 Syrup half an ounce  
 Yolk of egg one  
 Distilled water

four fl. ounces and a-half  
 Mix, by rubbing the yolk of the egg with the syrup, then adding the chloric ether and water so as to form an emulsion. *Moxon.*

## LINIMENT OF CHLOROFORM.

- R. Soap liniment two fl. ounces  
 Chloroform one fl. drachm  
 Mix. As an application in neuralgic pains, over the affected part. *Tuson.*

## CHONDRUS.

## IRISH MOSS. CARRAGEEN.

The fronds of *Chondrus crispus*, a sea-weed growing on rocks and stones in the seas of Northern Europe, especially on the southern and western coasts of Ireland.

*Ser. Syst.* Cryptog. fuci. *Nat. Syst.* Ceramiacæ.

Greville, Alg. Brit. 129. Dunglison, New Rem. 175.

It is of a yellowish, or purplish color, translucent, nearly tasteless, and scentless. It is nutritive and demulcent, and affords a useful article of diet to convalescents. It has also been recommended in scrofula, and bowel and pectoral affections. Before using it should be soaked in cold water to remove any salt or other impurities.

## DECOCTION OF CARRAGEEN.

- R. Carrageen, sliced, half an ounce  
 Water three pints  
 Boil for a quarter of an hour, express, and strain. *Beral.*  
 R. Carrageen, sliced, half a drachm  
 New milk, nine fl. ounces

Boil to five fl. ounces, strain, and add  
 Sugar half a drachm to a drachm  
 Bitter almond water one scruple  
 To be taken during the day. *Grüfe.*

R. Carrageen four scruples  
 New milk twenty-four fl. ounces  
 Boil for ten minutes, express, and add  
 Orange-flower water one ounce and a-half

## CARRAGEEN JELLY.

R. Carrageen two drachms  
 New milk one pint  
 Boil to consistence of jelly, strain, and add  
 Sugar one ounce  
 Bitter almonds two  
*Radius.*

R. Mucilage of carrageen five ounces  
 Sugar four ounces  
 Evaporate to eight ounces, by a gentle heat; strain, and add  
 Essence of citron fifty drops  
*Beral.*

## CARRAGEEN MIXTURE.

R. Carrageen half a drachm  
 Water sufficient  
 to obtain six ounces of mucilage; strain, and add  
 Phosphate of soda one drachm and a-half  
 Syrup of opium three drachms  
 A spoonful, every two hours, in hemoptysis. *Clarus.*

## CICHORIUM.

## SUCCORY.

The *Cichorium intybus* is a perennial herbaceous plant, indigenous to Europe, but naturalized in many places in this country.

*Sex. Syst.* Syngen. æqual. *Nat. Syst.* Asteracere.

The whole plant is bitter, the root the most so. It is tonic, aperient, and deobstruent. The dried and torrefied root is used in Europe to mix with, or as a substitute for coffee.

## EXTRACT OF SUCCORY.

R. Juice of succory at will  
 Evaporate to proper consistence. *Guibourt.*  
 Dose, from ten grains to half a drachm.

## INFUSION OF SUCCORY.

R. Dried succory half an ounce  
 Boiling water two pints  
 Infuse and strain, and add  
 Syrup of maidenhair one drachm  
*Cottreau.*

## COMPOUND SYRUP OF SUCCORY.

R. Juice of succory  
 dandelion

fumitory, each, six ounces  
 Sugar one pound  
 Boil to proper consistence, and strain.  
 Dose, one to two ounces. As a diuretic.  
*St. Marie.*

## CIMICIFUGA.

## BLACK SNAKEROOT.

This is the root of *Cimicifuga racemosa*, a native, found in many parts of the United States, in shady places.

*Sex. Syst.* Polyand. di pent. *Nat. Syst.* Ranunculaceæ.

Torrey and Gray, Fl. 1. 36. Griffith, Med. Bot. 92.

The root is thick, contorted, dark brown, with numerous radicles. The odor is peculiar and unpleasant, and the taste bitter and somewhat astringent. It is acro-narcotic, and is used in rheumatism, dropsy, pectoral affections, chorea, &c.. The dose of the powder, a drachm, several times a-day.

## DECOCTION OF BLACK SNAKEROOT.

R. Black snakeroot (contused) one ounce  
 Water one pint  
 Boil for a short time, and strain. Dose, one to two fl. ounces. *Wood.*

## TINCTURE OF BLACK SNAKEROOT.

R. Bruised black snakeroot four ounces  
 Alcohol one pint  
 Digest for fourteen days, and filter. Dose, twenty drops, three or four times a-day.  
*Carson.*

Used in rheumatic cases.

## CINCHONA.

## PERUVIAN BARK.

Cinchona is the bark of several species of *Cinchona*, all natives of South America. There are numerous varieties of this article used in medicine, but the state of our knowledge on the subject does not permit a reference of them to a particular species of the tree, except in a few cases. (See *U. S. Dispens.* 212, and Griffith, *Med. Bot.* 368.) Peruvian bark owes its properties to the presence of one or more alkaloids, called quinia, cinchonina, &c.

It is a bitter tonic and antiperiodic, and is used in a variety of diseases, and is given in a multitude of forms. The dose in powder as a febrifuge is a drachm, frequently repeated as a tonic from ten to thirty grains. Its use is now much superseded by that of quinia.

## COMPOUND POWDER OF PERUVIAN BARK.

R. Powdered Peruvian bark  
 Cremor tartar, each, one ounce  
 Powdered cloves one drachm  
 Mix. A drachm and a-half every two hours, in the apyrexia of fevers. *Ellis.*

R. Powdered Peruvian bark half an ounce  
 Snakeroot one drachm  
 Bicarbonate of soda two scruples  
 Mix, and divide into four powders, one  
 to be given every two hours, in apyrexia  
 of obstinate intermittents. *Ellis.*

R. Powdered Peruvian bark  
 uva ursi, each, one or two  
 drachms  
 opium three grains  
 Mix, and divide into six powders, one to  
 be taken three or four times a-day, fol-  
 lowed by a draught of two ounces of lime  
 water. Antilithic. *Ferriar.*

R. Powdered Peruvian bark one ounce  
 Tartar emetic two grains  
 Opium one grain  
 Mix, and divide into four powders; one to  
 be taken every two hours. *Brera.*

R. Powdered Peruvian bark  
 Sulphate of magnesia, each, six  
 drachms  
 Mix, and divide into four powders. One  
 every two hours, where purging is required,  
 and at same time a tonic impression to be  
 made. *Ellis.*

R. Powdered Peruvian bark thirty grains  
 Aromatic powder ten grains  
 Make a powder, to be taken in a cup of  
 milk every three hours. In convalescence  
 from fevers.

*A. T. Thomson.*

#### POWDER OF PERUVIAN BARK AND ARENICA.

R. Powdered Peruvian bark  
 arnica  
 camphor equal parts  
 Mix. As an application to gangrenous  
 ulcers. *Cadet.*

#### POWDER OF PERUVIAN BARK AND CASCARILLA.

R. Powdered Peruvian bark two drachms  
 cascarilla twelve grains  
 Mix. In apyrexia of intermittents *Foy.*

#### POWDER OF PERUVIAN BARK AND CAMPHOR.

R. Powdered Peruvian bark half an ounce  
 camphor one scruple  
 gum Arabic two drachms  
 Mix. As an application to atonic ulcers.  
*Gen. Ph.*

#### PERUVIAN BARK DENTIFRICE POWDERS.

R. Powdered Peruvian bark one ounce  
 and a-half  
 red saunders half an ounce

Oil of cloves, each, twelve drops  
 Mix. *Hufeland.*

R. Powdered Peruvian bark three ounces  
 cremor tartar  
 sage leaves  
 myrrh, each, half an ounce  
 catechu six drachms

Oil of cloves sixteen drops  
 Mix. *Hesse Ph.*

R. Powdered Peruvian bark  
 charcoal, each, one drachm  
 and a-half  
 cinnamon half a drachm  
 Mix. *Soubeiran.*

R. Powdered Peruvian bark one ounce  
 orris root  
 sage leaves  
 myrrh, each, half an ounce  
 Mix. *Fulda. Disp.*

R. Powdered Peruvian bark two ounces  
 muriate of ammonia half an  
 ounce  
 orris root one ounce  
 catechu  
 myrrh, each, six drachms

Oil of cloves twelve drops  
 Mix. *Pideret.*

#### POWDER OF PERUVIAN BARK AND VALERIAN.

R. Powdered Peruvian bark two drachms  
 valerian one drachm  
 Mix. Divide into four powders. In ner-  
 vous disorders. *Ratier.*

#### POWDER OF PERUVIAN BARK AND ISINGLASS.

R. Powdered Peruvian bark one ounce  
 isinglass one drachm  
 and a-half  
 Mix, and divide into sixteen powders.  
 Dose, at first, from three to six a-day, in  
 passive menorrhagia, leucorrhœa, chronic  
 diarrhœa, &c. *Brera.*

#### PERUVIAN BARK MIXTURE.

R. Powdered Peruvian bark half an ounce  
 Confection of opium one drachm  
 Lemon juice two drachms  
 Port wine four fl. ounces  
 Mix. A wineglassful every two hours, in  
 the apyrexia of intermittent fever. *Ellis.*

R. Powdered Peruvian bark two drachms  
 Wine of opium sixty drops  
 Nitrate of potassa five grains  
 Infusion of gëntian six ounces

Mix. An ounce every two hours.  
*Pierquin.*



R. Powdered Peruvian bark two drachms  
Compound tincture of bark one fl. ounce  
Decoction of bark three fl. ounces  
Syrup half fl. ounce  
Mix. A tablespoonful every one or two hours in the apyrexia. *Ellis.*

R. Powdered Peruvian bark one ounce and a-half  
Magnesia six drachms  
Saffron one scruple  
Conserve of opium two drachms  
White wine  
Water, each, twelve ounces  
Mix. To be taken in divided doses, during the day, in apyrexia. *Giordano.*

R. Powdered Peruvian bark one ounce  
Alcohol eight ounces  
Sulphuric ether two drachms  
Mix. A spoonful every hour, or two hours. *Augustin.*

R. Powdered Peruvian bark one ounce  
ginger twenty grains  
Red wine eight fl. ounces  
Sugar one ounce  
Mix. To be taken during the apyrexia. *Radius.*

#### EXTRACT OF PERUVIAN BARK.

R. Peruvian bark, in coarse powder, one pound  
Alcohol four pints  
Water sufficient

Macerate the bark in the alcohol for four days, and obtain tincture by displacement. When the liquid measures four pints, set aside, and obtain six pints of infusion. Distil off alcohol from tincture, and evaporate infusion to the consistence of thin honey; mix, and evaporate to proper consistence. *U. S. Ph.*

Dose, ten to thirty grains.

#### VINOUS EXTRACT OF PERUVIAN BARK.

R. Powdered Peruvian bark one part  
White wine eight parts  
Digest for three days, express, strain, and evaporate to proper consistence. *Hesse Ph.*

#### COMPOUND BOLUS OF EXTRACT OF PERUVIAN BARK.

R. Extract of Peruvian bark twenty grains  
Nitrate of potassa thirty grains  
Conserve of orange peel sufficient  
Mix, and form five boluses. *Pierquin.*

#### COMPOUND PILLS OF EXTRACT OF PERUVIAN BARK.

R. Extract of Peruvian bark

Extract of gentian, each, one drachm  
Sulphate of iron half a drachm  
Powdered myrrh one drachm  
Oil of caraway ten drops  
Syrup of ginger sufficient  
Beat together into mass, and form forty pills. Three to be taken, three times a-day. *Ellis.*

R. Extract of Peruvian bark one drachm  
opium one grain  
Camphor twelve grains  
Powdered Peruvian bark sufficient  
Beat into a mass, and form twelve pills. One to be taken, three or four times a-day. *Ellis.*

R. Extract of Peruvian bark  
rhubarb  
gentian  
blessed thistle equal parts  
Beat into mass, and form pills of four grains. Dose, one or two, three times a-day. *St. Marie.*

R. Extract of Peruvian bark  
gentian, each, one drachm  
Sulphate of iron half a drachm  
Powdered myrrh one drachm  
Oil of caraway ten drops  
Syrup of ginger sufficient  
Beat well together, and divide into forty pills. Three to be taken three times a-day. In the apyrexia of intermittents. *Thomson.*

R. Extract of Peruvian bark two drachms  
Powdered alum one drachm  
Syrup sufficient  
Mix, and divide into thirty-six pills. Four to be taken every four or six hours. In passive hemorrhages. *A. T. Thomson.*

#### DECOCTION OF PERUVIAN BARK.

R. Peruvian bark, bruised, one ounce  
Water one pint  
Boil for ten minutes, and strain while hot. Dose, two fl. ounces. *U. S. Ph.*  
R. Peruvian bark, bruised, one ounce  
Water one pint  
Boil for ten minutes, and while hot, add  
Snakeroot half an ounce  
Orange peel two drachms  
Infuse for half an hour, near the fire, in a covered vessel. Dose, a wineglassful every hour. *Ellis.*

R. Decoction of Peruvian bark six fl. ounces  
Compound tincture of bark one fl. ounce  
Aromatic sulphuric acid ten drops  
Mix. A tablespoonful every hour or two. *Ellis.*



## DECOCTION OF PERUVIAN BARK MIXTURE.

R. Decoction of Peruvian bark six ounces  
 Tincture of Peruvian bark one ounce  
 Sulphuric acid one drachm  
 Syrup of orange peel half an ounce  
 Mix. A tablespoonful every hour or two.  
*Foy.*

R. Decoction of Peruvian bark eight ounces  
 Infusion of arnica flowers six ounces  
 Camphor two scruples  
 Syrup of balsam of tolu one ounce  
 Emulsion of gum four ounces  
 Mix. To be taken in divided doses, during the day.  
*Brugnatelli.*

## DECOCTION OF PERUVIAN BARK AND CASCARILLA.

R. Peruvian bark one ounce  
 Cascarella two drachms  
 Water twelve ounces  
 Boil to eight ounces, express, and strain, and add, when cold,  
 Sulphuric ether two drachms  
 Mix. *Copenhagen Ph.*

## DECOCTION OF PERUVIAN BARK AND RHATANY.

R. Peruvian bark  
 Rhatany, each, half an ounce  
 Water sufficient  
 to obtain nine ounces of decoction; strain, and add

Vinous extract of Peruvian bark four scruples  
 Compound tincture of Peruvian bark one fl. drachm  
 Citron water one ounce

Mix. In chronic diarrhoea. *Brera.*

## COMPOUND DECOCTION OF PERUVIAN BARK.

R. Peruvian bark one ounce  
 Virginia snakeroot half an ounce  
 Orange peel two drachms  
 Powdered cloves one drachm  
 Carbonate of potassa one drachm  
 Mix. Put the mixture into a proper vessel, with three half pints of water, boil down gently, to one pint; let settle, decant. Dose, a wineglassful every hour, for eight hours, in the apyrexia. *Dewees.*

## INFUSION OF PERUVIAN BARK.

R. Peruvian bark, bruised, one ounce  
 Boiling water one pint  
 Infuse for two hours, in a covered vessel, and strain. *U. S. Ph.*  
 Dose, two fl. ounces, as occasion may require.

## INFUSION OF PERUVIAN BARK WITH LIME WATER.

R. Bruised Peruvian bark two ounces  
 Lime water two pints  
 Infuse, and strain. A wineglassful to be given three or four times a-day. *Ellis.*

## INFUSION OF PERUVIAN BARK AND VALERIAN.

R. Bruised Peruvian bark one ounce and a-half  
 valerian half an ounce  
 Boiling water two pints  
 Infuse for twelve hours, and strain.  
*Fulda Disp.*

## INFUSION OF PERUVIAN BARK AND SERPENTARIA.

R. Bruised Peruvian bark ten drachms  
 Boiling water one pint  
 Infuse for four hours, then boil for half an hour, then add  
 Snakeroot two drachms  
 Infuse for two days, and strain.  
*Saunders.*

## INFUSION OF PERUVIAN BARK AND MAGNESIA.

R. Powdered Peruvian bark one ounce  
 Magnesia one drachm  
 Boiling water twelve ounces  
 Infuse for twelve hours, express, and strain. Said to be more astringent than other infusions.  
*Van Mons.*

## COMPOUND INFUSION OF PERUVIAN BARK.

R. Peruvian bark  
 Juniper berries, each, one drachm  
 Orange peel  
 Cinnamon, each, two drachms  
 Winter's bark half a drachm  
 Ipecacuanha fifteen grains  
 Boiling water seven ounces  
 Infuse, and strain, then add  
 Extract of juniper berries one drachm and a-half  
 In spoonful doses, in atonic dropsies.

*Bories.*

R. Root of scorzonera one ounce  
 Contused lemon seeds two drachms  
 Water six pints  
 Boil to four pints; pour boiling liquid on  
 Bruised Peruvian bark two ounces  
 Contrayerva one ounce  
 Infuse for a quarter of an hour, strain, and add  
 Honey of elder three ounces  
 As a stimulating diuretic. *Span. Ph.*

## COMPOUND INFUSION OF PERUVIAN BARK.

R. Powdered Peruvian bark one ounce  
Aromatic sulphuric acid one fl. drachm  
Water one pint  
Macerate for twelve hours, and strain.

*U. S. Ph.*

Dose, two fl. ounces.

## COMPOUND INFUSION OF PERUVIAN BARK AND IRON.

R. Peruvian bark, in coarse powder, one ounce  
Sliced Colombo root three drachms  
Bruised cloves two drachms  
Iron filings half an ounce

Digest for three days in a close vessel, add Peppermint water sufficient to yield a mixture of twelve ounces, on filtering, then add

Compound tincture of cardamom three ounces

Tincture of orange peel three drachms

Dose, one to two fl. ounces. *Dub. Ph.*

## ELECTUARY OF PERUVIAN BARK.

R. Powdered Peruvian bark one ounce  
Syrup of orange peel sufficient

Mix. A teaspoonful every hour. *Radius.*

## ASTRINGENT ELECTUARY OF PERUVIAN BARK.

R. Powdered Peruvian bark  
orange peel, each, six drachms  
crabs' eyes two drachms

Conserve of red roses  
rose hips, each, six drachms

Syrup of catechu sufficient

Mix. Dose, one drachm, two or three times a-day, in chronic diarrhœa.

*Saunders.*

## ELECTUARY OF PERUVIAN BARK AND CATECHU.

R. Powdered Peruvian bark one ounce  
catechu

Balsam of tolu, each, one drachm  
Syrup of comfrey sufficient

Divide into ten doses, one to be taken twice or three times a-day, in some appropriate vehicle. Much praised in hemoptysis.

*Pierquin.*

## ELECTUARY OF PERUVIAN BARK AND TIN.

R. Powdered Peruvian bark one ounce  
tin  
valerian, each, half an ounce

Syrup sufficient

Mix. Dose, a drachm, morning and evening, in epilepsy. *Cadet.*

## ELECTUARY OF PERUVIAN BARK AND CLOVES.

R. Peruvian bark two ounces  
Cloves one drachm

Simple syrup sufficient to form electuary. A piece, the size of a nutmeg, every two hours in the apyrexia of intermittent fever. *Dewees.*

## ELECTUARY OF PERUVIAN BARK AND IRON.

R. Powdered Peruvian bark six drachms  
Pure oxide of iron

Confection of opium, each, two drachms

Syrup of cinnamon sufficient

Mix. Dose, a drachm, morning and evening, in ascites, after the evacuation of the fluid. *Cadet.*

## ELECTUARY OF PERUVIAN BARK AND SULPHUR.

R. Powdered Peruvian bark one drachm  
sulphur  
crabs' eyes  
spermaceti, each, two drachms

Extract of opium four grains

Powdered mushrooms one drachm and a-half

Conserve of roses four drachms

Syrup of milfoil sufficient

Mix. Dose, two scruples, three times a-day. Highly praised in phthisis. *Cadet.*

## TINCTURE OF PERUVIAN BARK.

R. Powdered Peruvian bark six ounces  
Diluted alcohol two pints

Macerate for fourteen days, express, and filter. *U. S. Ph.*

Generally employed as an adjuvant to other preparations of bark, in the dose of one to four fluid drachms.

## COMPOUND TINCTURE OF PERUVIAN BARK.

R. Powdered Peruvian bark two ounces  
Bruised orange peel one ounce and a-half

snakeroot three drachms

Saffron, cut,

Red saunders, rasped, each, one drachm

Diluted alcohol twenty fl. ounces

Macerate for fourteen days, express, and filter. *U. S. Ph.*

An excellent stomachic and useful adjunct to other preparations of bark.

## TINCTURE OF PERUVIAN BARK AND VALERIAN.

R. Tincture of Peruvian bark  
valerian, each, one fl. ounce  
cardamom two fl. drachms

Mint water four fl. ounces

Mix. A tablespoonful every three hours, as a tonic in nervous temperaments. *Ellis*.

#### TINCTURE OF PERUVIAN BARK AND SNAKEROOT.

R. Powdered bark three ounces  
snakeroot two ounces  
contrayerva one ounce  
Aleohol sixteen fl. ounces  
Macerate for twenty-four hours, express, and filter. Dose, fifty to sixty drops.  
*Van Mons.*

#### TINCTURE OF PERUVIAN BARK AND AMMONIA.

R. Powdered Peruvian bark one ounce  
Ammoniated alcohol eight fl. ounces  
Macerate for eight days in a covered vessel, express, and filter. *Swedliaur.*

#### TINCTURE OF PERUVIAN BARK AND GENTIAN.

R. Bruised Peruvian bark eight parts  
gentian  
orange peel, each, three parts  
Diluted aleohol ninety-six parts  
Macerate for three days, express, and filter.  
*Foy.*

#### TINCTURE OF BARK AND CANTHARIDES.

R. Tincture of bark three ounces  
Paregorie elixir half an ounce  
Tincture of Spanish flies one drachm  
Mix. Used, it is stated, with great success, in hooping-cough. To be given in small doses, until a slight strangury is caused.  
*Sutcliffe.*

#### CATAPLASM OF PERUVIAN BARK.

R. Cataplasm of linseed meal one pound  
Powdered Peruvian bark four ounces  
Mix. *Foy.*

R. Powdered Peruvian bark  
charecoal, each, one ounce  
eamphor one drachm and a-half

Spirits of turpentine sufficient  
Mix. *Phabus.*

These cataplasms are employed as applications to gangrenous ulcers, &c.

#### CERATE OF PERUVIAN BARK.

R. Simple cerate eight ounces  
Camphor one drachm and a-half  
Rub together, and gradually incorporate  
Decoction of Peruvian bark one ounce  
An application to ill-conditioned ulcers.  
*Van Mons.*

#### PERUVIAN BARK POMATUM.

R. Extract of Peruvian bark half a drachm  
Oil of roses two drops  
bergamot eight drops

Beef marrow half an ounce  
Incorporate well. As an application to promote the growth of the hair. *Phabus.*

#### PERUVIAN BARK GELATINE.

R. Bruised Peruvian bark  
Water, each, four ounces  
Boil, express, strain, and add  
Gelatine three drachms  
White sugar one ounce and a-half  
To be taken in spoonfuls, in the apyrexia of intermittents. *Pierquin.*

#### CLYSTER OF PERUVIAN BARK.

R. Decoction of Peruvian bark four ounces  
Yolk of egg one  
Powdered Peruvian bark three drachms  
Tincture of opium twelve drops  
Mix. *Radius.*

R. Extract of Peruvian bark half a drachm  
Warm water four fl. ounces  
Dissolve, and add  
Olive oil half a fl. ounce  
Tincture of opium ten drops  
Mix. To be administered every four hours, in the apyrexia of intermittents.  
*Ellis.*

#### GARGLE OF PERUVIAN BARK.

R. Tincture of Peruvian bark  
Syrup of mulberries, each, four fl. drachms  
Spirit of horseradish one drachm  
Infusion of sage six fl. ounces  
Mix. In obstinate sore throat, when active inflammation has subsided. *Cadet.*

#### LOTION OF PERUVIAN BARK.

R. Extract of Peruvian bark  
Sulphuric ether, each, one drachm  
Aleohol seven drachms  
Mix. As a frietion, three times a-day, in weakness of the back. *Augustin.*

#### PERUVIAN BARK BEER.

R. Bruised Peruvian bark one and a-half ounces  
Cinnamon two drachms  
Rasped nutmeg seven drachms  
Yeast two ounces  
Sugar twenty-five ounces  
Water one hundred fl. ounces  
Mix, and expose to a warm temperature after fermentation, decant, and strain. Three or four glasses to be taken during the apyrexia of intermittents. *Ferrara Ph.*

COMPOUND SYRUP OF PERUVIAN BARK.  
R. Powdered Peruvian bark two drachms



Powdered seneka half a drachm  
 liquorice one drachm  
 Contused poppy heads three  
 ipecacuanha one scruple  
 Ground ivy  
 Hyssop  
 Pennyroyal, each, a handful  
 Sugar one pound  
 Water sufficient  
 Boil, and make a syrup. Three spoonfuls  
 a day, in hooping-cough. *Bories.*

## WINE OF PERUVIAN BARK.

R. Powdered Peruvian bark one part  
 White wine twelve parts  
 Digest for twenty-four hours, often stirring,  
 and filter. *Cottercau.*  
 R. Red wine twenty parts  
 Tincture of Peruvian bark one part  
 Mix. *Niemann.*

## WINE OF PERUVIAN BARK AND IRON.

R. Bruised Peruvian bark, one ounce and a-half  
 Oxide of iron half an ounce  
 Powdered cinnamon two drachms  
 Sugar one ounce  
 White wine two pints  
 Mix, and digest for two days, and filter.  
 Dose, an ounce, two or three times a-day,  
 as a tonic.

## WINE OF PERUVIAN BARK AND CALAMUS.

R. Bruised Peruvian bark  
 Calamus, each, one ounce and a-half  
 Quassia  
 Cinnamon  
 Elder flowers, each, six drachms  
 Alcohol three pints  
 Water eighteen pints  
 Macerate, express, strain, and add  
 Tincture of iron twelve ounces  
 Orange-flower water, one pint and a-half  
 Syrup six ounces  
 Mix. Dose, two drachms, morning and  
 evening, in leucorrhœa and gonorrhœa. *Cadet.*

## PERUVIAN BARK MIXTURE.

R. Peruvian bark six drachms  
 Confection of opium three drachms  
 Cremor tartar two drachms  
 Water six ounces  
 Mix. A tablespoonful every hour, in the  
 apyrexia. *Dewees.*

## SYRUP OF PERUVIAN BARK.

R. Extract of bark fourteen drachms  
 White wine two pounds  
 White sugar three pounds

Dissolve the extract in the wine, filter,  
 form a syrup with the sugar, with the aid  
 of a very moderate heat. *Monchon.*

## CINCHONIA.

## CINCHONIA.

An alkaloid existing in Peruvian bark; most  
 abundant in the pale kinds. It is white, trans-  
 lucent, and crystallizable, but little soluble in  
 water; very bitter, and has much the same pro-  
 perties as quinia.

## CINCHONIA.

R. Pale bark one thousand parts  
 Muriatric acid sixty-four parts  
 Water twelve thousand parts  
 Quicklime one hundred parts

Exhaust the bark by three successive boilings  
 with a third part of the acid and water, each  
 time, unite the decoctions, add the lime, diffused  
 in water, wash, and dry the precipitate; treat  
 it with alcohol, filter whilst hot, distil in a  
 water-bath, evaporate to dryness, digest in cold  
 alcohol, dissolve the residue in boiling alcohol,  
 with the addition of some animal charcoal, filter  
 whilst hot, and crystallize. *Par. Cod.*

## PILLS OF CINCHONIA.

R. Cinchonia one scruple  
 Conserve of roses sufficient  
 Mix, and form twenty-four pills. Dose,  
 two to eight. *Cadet.*

## MURIATE OF CINCHONIA.

R. Cinchonia at will  
 Muriatric acid sufficient  
 to saturate, filter, evaporate, and crystal-  
 lize. *Giordano.*

## KINATE OF CINCHONIA.

R. Alcoholic solution of sulphate  
 of cinchonia at will  
 Aqueous solution of kinate  
 of lime sufficient  
 to produce full precipitate; filter, evapo-  
 rate, redissolve, and crystallize. *Magen die.*

## SULPHATE OF CINCHONIA.

R. Cinchonia at will  
 Diluted sulphuric acid sufficient  
 to dissolve the cinchonia, evaporate, and  
 crystallize. *Guibourt.*

## PILLS OF SULPHATE OF CINCHONIA.

R. Sulphate of cinchonia half a drachm  
 Conserve of roses sufficient  
 Mix, and make thirty pills. Dose, one  
 to eight. *Cadet.*

## BOLUSES OF CINCHONIA.

R. Sulphate of cinchonia three grains  
 Crumb of bread  
 Honey  
 Liquorice, each, sufficient



Mix, and form boluses. One every two hours. *Brera.*

## SYRUP OF CINCHONIA.

R. Sulphate of cinchonia forty-eight grains

Syrup one pint

Mix. A spoonful is a dose. *Cadet.*

R. Sulphate of cinchonia twenty-four grains

Orange-flower water two drachms

Syrup twelve fl. ounces

Mix. As above. *Giordano.*

## WINE OF CINCHONIA.

R. Sulphate of cinchonia twenty-four grains

Maderia wine two pints

Make solution, and filter. Dose, one to four ounces. *Cottureau.*

## TINCTURE OF CINCHONIA.

R. Sulphate of cinchonia twelve grains

Alcohol one ounce

Dissolve. *Foy.*

## MIXTURE OF SULPHATE OF CINCHONIA.

R. Sulphate of cinchonia three grains

Peppermint water three ounces

Syrup of capillaire one ounce

Mix. To be taken in four doses, during the day. *Cadet.*

## CINNAMOMUM.

## CINNAMON.

This is the bark of *Cinnamomum Zeylanicum*, and *C. aromaticum*, and also, perhaps, of other species; all natives of various parts of the tropical regions of Asia. That most commonly used in this country, is what is termed cassia, in commerce, and is imported from China.

*Ser. Syst.* Enneand. monog. *Nat. Syst.* Lauraceæ.

*Necs.* Laurinææ. 52. *Griffith, Med. Bot.* 555.

It is in tubular pieces, of a light brownish red color, of an aromatic, warm, agreeable taste, and of a fragrant, peculiar smell. It is a warm cordial stimulant. Dose, in powder, ten grains to a scruple.

## COMPOUND POWDER OF CINNAMON.

R. Powdered cinnamon

ginger, each, two ounces

Cardamom seeds

Rasped nutmeg, each, one ounce

Rub together. *U. S. Ph.*

Stimulant, and carminative. Dose, ten to thirty grains, in debility of the stomach, with flatulence.

R. Powdered cinnamon one ounce

cloves

ginger

nutmeg, each, three drachms

Powdered mace two drachms

red saunders half an ounce

sugar thirty-two ounces

Mix well. Dose, from ten grains to a drachm. *Wirttemberg Ph.*

R. Powdered cinnamon twenty grains

cloves twelve grains

vanilla six grains

Rice flour six drachms

Sugar half an ounce

Mix. Dose, six grains to a scruple.

*Speilmann.*

## CINNAMON LOZENGES.

R. Powdered sugar

Cinnamon water, each, six ounces

Boil to syrup, and add

Powdered sugar one pound

Oil of cinnamon one drachm and a-half

Mix, make lozenges, and dry. *Taddei.*

## COMPOUND ELECTUARY OF CINNAMON.

R. Confection of orange peel, three ounces

nutmeg one ounce and

a-half

ginger six drachms

Powdered cinnamon half an ounce

Syrup of orange peel sufficient

Mix. *Swediaur.*

## INFUSION OF CINNAMON.

R. Bruised cinnamon half an ounce

Boiling water two pints

Infuse. In dyspepsia and nervous colics. *Radius.*

## COMPOUND VINEGAR OF CINNAMON.

R. Cinnamon

Cloves

Nutmeg, each, one drachm

Peppermint half an ounce

Lavender

Rosemary, each, one ounce

Vinegar eight fl. ounces

Diluted alcohol twenty fl. ounces

Mix, and distil twenty-eight ounces. Used as an aromatic. *Van Mons.*

## COMPOUND WINE OF CINNAMON.

R. Powdered cinnamon

Cloves

Mace

Cardamom, each, half a drachm

White wine two pints

Boil, filter, and add

Sugar ten ounces

As a cordial stomachic and stimulant. *Augustin.*

## TINCTURE OF CINNAMON.

R. Bruised cinnamon three ounces

Diluted alcohol two pints

Macerate for fourteen days, express, and filter.

*U. S. Ph.*

Dose, one to four fl. drachms.

#### COMPOUND TINCTURE OF CINNAMON.

R. Bruised cinnamon one ounce  
cardamom seeds half an ounce  
ginger three drachms

Diluted alcohol two pints

Macerate for fourteen days, express, and filter.

*U. S. Ph.*

A warm, aromatic tincture, useful in flatulence, gastrodynia, &c. Dose, one to two fl. drachms.

R. Bruised cinnamon one ounce  
cloves  
nutmeg

Cut saffron, each, half an ounce

Bruised calamus one drachm

mace two drachms

Fresh lemon peel no. two

orange peel no. one

Diluted alcohol one pint and a-half

Digest, express, and filter. Dose fifty to eighty drops, as a stomachic.

*Wirtemberg Ph.*

#### TINCTURE OF CINNAMON GARGLE.

R. Tincture of cinnamon one part  
Syrup of currants two parts  
Peppermint water sixteen parts

Mix. In malignant sore throat.

*Foy.*

#### ETHEREAL TINCTURE OF CINNAMON.

R. Bruised cinnamon three drachms  
cardamom half an ounce  
angelica one drachm and a-half

long pepper one drachm

Sulphuric ether five fl. ounces

Diluted alcohol ten fl. ounces

Macerate for eight days, express, and filter. Stomachic and carminative. Dose, thirty to fifty drops.

*Niemann.*

#### WATER OF CINNAMON.

R. Oil of cinnamon half fl. drachm  
Carbonate of magnesia half a drachm  
Distilled water two pints

Rub the oil with the magnesia, and both with the water, and filter.

*U. S. Ph.*

Mostly employed as a vehicle or adjuvant to other medicines.

#### COMPOUND CINNAMON WATER.

R. Sage  
Rosemary  
Peppermint  
Lavender, each, two parts  
Fennel  
Cinnamon, each, one part

Water one hundred and twenty parts  
Mix, and distil seventy-two parts. In spoonful doses.

*Saxon Ph.*

#### OIL OF CINNAMON.

R. Bruised cinnamon at will  
Water sufficient  
Distil, and separate the oil.

*Par. Cod.*

#### CINNAMON SPICE PLASTER.

R. Olibanum three ounces  
Yellow wax half an ounce  
Powdered cinnamon six drachms  
Oil of pimento

lemons, each, two drachms

Melt the wax and olibanum, and add the cinnamon, rubbed with the oils.

*Coze.*

### COCULUS.

#### COCULUS INDICUS.

This is the fruit of *Anamirta cocculus*, a woody vine, native of the East Indies.

*Ser. Syst.* Diac. dodecand. *Nat. Syst.* Menispermace.

Wight and Arnott, 1. 449. Griffith, Med. Bot. 105.

They are about the size of a pea, roundish, with a thin, dry, blackish, external coat, inclosing another of a lighter color, containing an oily, bitter, white kernel. They are inodorous, but of a permanent, bitter taste. They are acro-narcotic, and owe their properties to the presence of a peculiar principle, called *picrotoxin*. They are seldom used in medicine.

#### OINTMENT OF COCCULUS INDICUS.

R. Cocculus indicus at will  
Separate the kernels, beat them in a mortar, first alone, then with a little lard, finally, add lard equal to five times the weight of kernels.

*Ed. Ph.*

Used for the destruction of vermin, and in the treatment of ringworms and scabies of the scalp.

#### OINTMENT OF PICROTOXIN.

R. Picrotoxin six grains  
Lard one ounce  
Mix well. In tinea.

*Radiis.*

### COCCUS.

#### COCHINEAL.

Cochineal is a small, hemipterous insect, inhabiting Mexico and some parts of South America, living principally on different species of cactus, and especially the *Opuntia cochinillefera*. It is in grains of reddish-black, often covered with a white powder. It has a feeble odor, and a bitterish, somewhat acidulous taste. The powder is of a reddish-purple color, tinging fluids of a deep red. It is said to be somewhat anodyne

and antispasmodic, but is principally used as a coloring agent.

## TINCTURE OF COCHINEAL.

R. Powdered cochineal                    one part  
Diluted alcohol                            eight parts  
Macerate eight days, express, and filter.  
Advised in convulsive coughs. *Beral.*

## MIXTURE OF COCHINEAL AND CARB. POTASSA.

R. Carbonate of potassa                    one scruple  
Powdered cochineal                    half a scruple  
Sugar    one drachm  
Distilled water                            four fl. ounces  
Make mixture. Dose, for children, a teaspoonful, every two or three hours. A highly popular remedy in hooping-cough. *Ellis.*

## MIXTURE OF COCHINEAL AND COMMON SALT.

R. Common salt                            three drachms  
Powdered cochineal                    fifteen grains  
Divide into six doses. One to be taken every morning, the last followed by a purge. As a vermifuge. *Rush.*

COCHLEARIA.  
SCURVY GRASS.

Scurvy grass is the *Cochlearia officinalis*, an herbaceous plant, native of the northern parts of Europe, and cultivated there and in the United States as a garden herb.

*Sex. Syst.* Tetradyn. silic. *Nat. Syst.* Brassicaceæ.

The whole herb is used; it has a penetrating and acrid smell when bruised, and a pungent, bitter taste. It is antiscorbutic, aperient, and diuretic.

## ELECTUARY OF SCURVY GRASS.

R. Conserve of scurvy  
grass    one ounce and a-half  
Calamus                                        one drachm  
Syrup of orange peel  
Aromatic sulphuric acid, each, sufficient  
Mix. A teaspoonful every two hours, as an antiscorbutic. *Augustin.*

## GARGLE OF SCURVY GRASS.

R. Spirit of scurvy grass                    one drachm  
Syrup of Peruvian bark                    half an ounce  
Infusion of water cress                    eight ounces  
Mix. As a gargle in scurvy. *Foy.*

## CODEIA.

## CODEIA.

An alkaloid obtained from opium, and bearing the same relation to morphia that cinchonia does

to quinia. It is precipitated by tannin, and is soluble in ether, but is not thrown down from a dilute solution of its salts by ammonia. It acts somewhat like morphia, but produces great itching of the skin.

## CODEIA.

R. Opium    at will  
Macerate in a sufficient quantity of water, decant, treat with chloride of calcium, filter, evaporate, and crystallize; decompose by ammonia, filter, concentrate fluid, crystallize, dissolve the crystals in water, add a slight excess of caustic potassa, dissolve the precipitate in alcohol and ether, and crystallize. Dose, one to two grains, in neuralgia, &c. *Cottreau.*

R. Mother water of morphia (by Gregory's process)                    at will  
Evaporate and crystallize; re-dissolve the crystals, and re-crystallize. Treat with solution of potassa, which dissolves the morphia and precipitates the codeia; wash the latter with a little water, dissolve in hot ether, and suffer the solution to evaporate spontaneously.

## SYRUP OF CODEIA.

R. Codeia    twenty-four grains  
Distilled water                            four fl. ounces  
Sugar    eight ounces  
Reduce codeia to fine powder, triturate with one-third of water, allow to settle and decant; treat residue with the remainder of water, at two operations. Treat in a matrass on water-bath till quite dissolved, add sugar, and dissolve. *Cap.*

Dose, one drachm, night and morning; gradually increased in neuralgic irritation of the stomach, hooping-cough, &c.

## MURIATE OF MORPHIA AND CODEIA.

R. Opium    at will  
Treat with water, add a strong solution of chloride of calcium, filter with animal charcoal, evaporate, and crystallize. *Magendie.*  
Dose, half a grain to a grain.

## COFFEA.

## COFFEE.

Coffee is the product principally of *Coffea Arabica*, a small tree, native of the eastern coast of Africa, but now cultivated in most tropical regions. The varieties are very numerous, and in some cases probably are derived from other species.

*Sex. Syst.* Pentand. monog. *Nat. Syst.* Cinchonaceæ.

Linn. Sp. Pl. 245. Griffith, Med. Bot. 361.

Raw coffee has febrifuge properties, and has been used with success in the treatment of inter-



mittents. In a roasted state it acts on the nervous system, producing wakefulness, and also somewhat excites the circulatory system. It is said to be useful in periodic asthma, and is an efficient anti-emetic.

#### DECOCTION OF RAW COFFEE.

R. Raw coffee one ounce  
Water eighteen ounces  
Boil to two-thirds, strain, and add  
Lemon juice two ounces  
To be taken warm, during the apyrexia.  
*Foy.*

#### VINEGAR OF COFFEE.

R. Roasted coffee, ground, three ounces  
Vinegar twelve ounces  
Boil, strain, and add  
Sugar one ounce and a-half  
Two spoonfuls occasionally, in poisoning by opium, after the evacuation of the poison.  
*Pierquin.*

#### SYRUP OF COFFEE.

R. Coffee, roasted, four ounces  
Water two pints  
Refined sugar three pounds  
Infuse the coffee in a pint and a-half of the water for six hours, boil in a water-bath, let settle, decant, and add remainder of the water. Let stand for some hours; decant, add sugar, form syrup, and strain. Dose, from one ounce to two. *Ferrari.*

### COLCHICUM.

#### COLCHICUM.

The *Colchicum autumnale*, or meadow saffron, is a bulbous plant, a native of most parts of Europe, flowering in the autumn, and putting forth its leaves, and perfecting its seed the succeeding spring.

*Sex. Syst.* Hexand. monog. *Nat. Syst.* Melanthaceæ.

Linn. Sp. Pl. 485. Griffith, Med. Bot. 644.

The parts used are the bulb and the seeds. The first is of a brown color externally, white within, rounded on one side, flattened on the other, of scarcely any smell, but an acrid, bitter taste; the seeds are small, rounded, of a brownish yellow color, and of the same taste as the bulb. They owe their properties to the presence of colchicia.

Colchicum is principally used in the various forms of gout and rheumatism. It is an active irritant, and in large doses, acro-narcotic. The dose of the powdered bulb is two to eight grains, every four or six hours, that of the seeds much the same.

#### EXTRACT OF COLCHICUM BULB.

R. Fresh colchicum bulb one pound  
Bruise in stone mortar, express juice, evaporate to proper consistence. *Lond. Ph.*

#### ACETIC EXTRACT OF COLCHICUM BULB.

R. Fresh colchicum bulb one pound  
Acetic acid three fl. ounces  
Bruise, gradually adding acid, express, and evaporate in porcelain vessel to proper consistence. *Lond. Ph.*

Dose, one to two grains, two or three times a-day.

#### COLCHICUM PILLS.

R. Powdered colchicum three grains  
Soap sufficient  
Make three pills, to be taken during the day, gradually increasing to five or six. *Ritton.*

#### COMPOUND COLCHICUM PILLS.

R. Acetic extract of colchicum three grains  
Dover's powder  
Compound extract of colocynth, each, one grain  
Mix, and make a pill. In gout, after having taken, for some days, thirty to forty drops of colchicum wine, morning and evening. *Halford.*

R. Extract of colchicum root two grains  
foxglove one grain  
col., comp., twenty grains  
Mix, and form five pills. One at night, in gout. *Lartiques.*

#### WINE OF COLCHICUM ROOT.

R. Colchicum root, bruised, one pound  
Sherry wine two pints  
Macerate for fourteen days, express, and filter. *U. S. Ph.*

#### WINE OF COLCHICUM SEEDS.

R. Colchicum seed, bruised, four ounces  
Sherry wine two pints  
Macerate for fourteen days, express, and filter. *U. S. Ph.*

The dose of the first, which is saturated, is from ten drops to a fl. drachm; for the second, one to two fl. drachms.

R. Colchicum three ounces  
Sherry wine, deprived of its spirit by evaporation two ounces  
Macerate for six days, and filter. *Taddei.*

This is said to be the formula of the *Eau medicinale* of *Husson*.

#### TINCTURE OF COLCHICUM SEEDS.

R. Colchicum seed, bruised, four ounces  
Diluted alcohol two pints  
Macerate for fourteen days, express, and filter. *U. S. Ph.*

Dose, from half a fl. drachm to two fl. drachms. Sometimes used as an embrocation in gout, rheumatism, and neuralgia.



## COMPOUND TINCTURE OF COLCHICUM SEEDS.

R. Colchicum seeds, bruised, five ounces  
Aromatic spirit of ammonia two pints  
Macerate for fourteen days, express, and filter. *Lond. Ph.*

More stimulating than the last. Dose, thirty drops to a fl. drachm.

## TINCTURE OF COLCHICUM FLOWERS.

R. Dried colchicum flowers one ounce  
Diluted alcohol one pint  
Macerate for eight days, express, and filter. Advised in acute rheumatism. *Bushell.*

## VINEGAR OF COLCHICUM ROOT.

R. Dried colchicum root two ounces  
Distilled vinegar two pints  
Alcohol one fl. ounce  
Macerate the root in the vinegar for seven days, express, and let dregs subside, pour off and add alcohol. *U. S. Ph.*

As a diuretic in dropsy, also given in gout, rheumatism, &c. Dose, thirty drops to two fl. drachms.

## OXYMEL OF COLCHICUM.

R. Fresh colchicum root, sliced, one ounce  
Distilled vinegar one pint  
Clarified honey two pounds  
Macerate the colchicum in the vinegar for two days, express, and strain; add honey, and boil to consistence of syrup. *Dub. Ph.*  
Dose, one fl. drachm twice a-day.

## VINEGAR OF COLCHICUM SEEDS.

R. Colchicum seeds one part  
Distilled vinegar four parts  
Macerate a month, and filter. *Beral.*

## SYRUP OF COLCHICUM.

R. Vinegar of colchicum root sixteen parts  
Sugar twenty-six parts  
Boil, by a gentle fire. *Swed. Pharm.*

## MIXTURE OF COLCHICUM AND MAGNESIA.

R. Magnesia one drachm  
Sugar  
Gum Arabic, each, sufficient  
Distilled water four fl. ounces  
Wine of colchicum forty drops  
Mix. A tablespoonful every two hours, till it operates. In gout and rheumatism. *Ellis.*

## MIXTURE OF COLCHICUM AND SULPHATE OF MAGNESIA.

R. Sulphate of magnesia one to two ounces  
Mint water ten fl. ounces  
Vinegar of colchicum  
Syrup of saffron, each, one fl. ounce  
Magnesia eight scruples

Mix. Dose, one to three tablespoonfuls, every two hours, till four to six evacuations are procured in the twenty-four hours. In gout. *Scudamore.*

## COMPOUND WINE OF COLCHICUM.

R. Tincture of colchicum seeds one scruple to half a fl. drachm  
Wine of colchicum seeds half a fl. ounce  
Mix. Fifteen to forty drops, three times a-day. *Weber.*

## TINCTURE OF COLCHICUM MIXTURE.

R. Tincture of colchicum seeds guaiacum, each, three fl. drachms  
Mix. Thirty to forty drops, three times a-day, in chronic rheumatism. *Radius.*

## TINCTURE OF COLCHICUM AND DIGITALIS.

R. Tincture of colchicum seed digitalis, each, two fl. drachms  
Nitric ether one scruple  
Mix. Twenty drops, morning and evening, on sugar, in hydrothorax. *Hildebrand.*

## COLCHICUM MIXTURE.

R. Wine of colchicum seed thirty drops  
Denarcotized laudanum twenty-five drops  
Sugar thirty grains  
Water one ounce  
Mix. Found useful in acute rheumatism. To be taken at night. *Dewees.*

## COLCHICUM MIXTURE.

R. Wine of colchicum seeds forty drops  
Acetic tincture of opium twenty drops  
Sugar thirty grains  
Water one ounce  
Mix. In gout, after inflammation is allayed. To be taken at bedtime. *Dewees.*  
R. Expressed juice of colchicum flowers two parts  
Brandy one part  
Mix, and let rest for a few days; decant, and keep for use in well-stopped bottles. *Wilson.*

Said to be identical in every respect to the *Eau medicinale of Husson.*

## MIXTURE OF COLCHICUM AND ELATERIUM.

R. Elaterium one grain  
Spirit of nitric ether two fl. ounces  
Tincture of squills  
Oxymel of colchicum, each, half a fl. ounce  
Syrup one fl. ounce  
Mix. A teaspoonful, three or four times a-day, in hydrothorax. *Ferriar.*

## VINEGAR OF COLCHICUM MIXTURE.

- R. Vinegar of colchicum  
 Syrup, each, half a fl. ounce  
 Carbonate of magnesia one drachm  
 and a-half  
 Peppermint water four ounces  
 Mix. In tablespoonful doses, as a sudorific in gout, &c. *Foy.*

## MIXTURE OF COLCHICUM AND SQUILLS.

- R. Oxy mel of colchicum  
 squills  
 Tincture of tobacco, each, half fl. ounce  
 Mix. A teaspoonful four times a-day. As a diuretic in dropsy. Requires caution. *Ferriar.*

## MIXTURE OF WINE OF COLCHICUM.

- R. Wine of colchicum half fl. drachm  
 Carbonate of magnesia one drachm  
 Cinnamon water  
 Distilled water, each, three fl. ounces  
 Mix. A tablespoonful, three times a-day. As a diuretic. *Ellis.*

## MIXTURE OF COLCHICUM AND AMMONIA.

- R. Oxy mel of squills  
 Solution acetate of ammonia, each, two fl. ounces  
 Parsley water six fl. ounces  
 Mix. A spoonful, every two hours, as a diuretic. *Augustin.*

## LINIMENT OF COLCHICUM AND CAMPHOR.

- R. Tincture of colchicum root  
 camphor, each, three fl. ounces  
 Mix. As an embrocation, in gout, rheumatism, and neuralgia. *Leycock.*

## COLLINSONIA.

## HORSE BALM.

The *Collinsonia Canadensis* is a native plant, found in most parts of this country, in woods; it is from two to three feet in height.

*Sex. Syst.* Diand. monog. *Nat. Syst.* Lamiaceæ. Linn. Sp. Pl. 39. Griffith, Med. Bot. 513.

The whole plant has a strong, peculiar, unpleasant odor, and a warm, pungent taste: these are most developed in the root; this is knotty and hard. It is diuretic, diaphoretic, and tonic; and is popularly used in diseases of the bladder, leucorrhœa, and dropsy, and externally as a fomentation to wounds, ulcers, &c.

## DECOCTION OF HORSE BALM.

- R. Horse balm root, bruised, two ounces  
 Water two pints  
 Boil for half an hour, and strain. Dose, a wineglassful, every two hours, in dropsy.

## TINCTURE OF HORSE BALM.

- R. Bruised horse balm root two ounces

Diluted alcohol one pint  
 Macerate for fourteen days, express, and filter. Dose, a teaspoonful.

## OIL OF HORSE BALM.

- R. Horse balm at will  
 Water sufficient  
 Distil, return product, and redistil, collect product. Dose, five to ten drops.

## COLOCYNTHIS.

## COLOCYNTH.

Colocynth is the dried pulp of the fruit of *Citrullus colocynthis*, a cucurbitaceous vine found in many parts of Asia and Africa. The fruit is a round pepo, of the size and color of an orange, with a thin, but hard rind, and containing numerous seeds, enveloped in a white, spongy pulp.

*Sex. Syst.* Monœc. monadelph. *Nat. Syst.* Cucurbitaceæ.

Royle, Mat. Med. 396. Griffith, Med. Bot. 306. It occurs in the shops in white, round, light balls, composed of a spongy, dried pulp, enclosing numerous seeds. This spongy substance has a faint odor, but an intensely bitter and nauseous taste. It is a powerful drastic and hydragogue purgative, and is seldom given alone.

## POWDER OF COLOCYNTH.

- R. Colocynth one to three grains  
 Gum Arabic  
 Liquorice  
 Sugar, each, five grains  
 Mix. As a hydragogue purgative. *Augustin.*

## EXTRACT OF COLOCYNTH.

- R. Sliced colocynth one pound  
 Distilled water two gallons  
 Mix, and boil over a slow fire for six hours, occasionally adding more water. Strain while hot, and evaporate to proper consistence. *Lond. Ph.*

Dose, from five grains to half a drachm.

- R. Colocynth pulp at will  
 Diluted alcohol nine grains  
 Macerate the pulp in a sufficiency of menstruum to cover it for twenty-four hours, displace till exhausted, and evaporate to the proper consistence. This extract is more active than the aqueous preparation. *W. Procter.*

## COMPOUND EXTRACT OF COLOCYNTH.

- R. Colocynth sliced six ounces  
 Powdered aloes twelve ounces  
 scammony four ounces  
 cardamom one ounce  
 Castile soap three ounces  
 Diluted alcohol one gallon  
 Macerate the colocynth in the alcohol, with

a mild heat for four days, express, and filter, then add the aloes, scammony, and soap, evaporate to proper consistence, and add the cardamom. *U. S. Ph.*

A valuable and safe cathartic. In small doses, laxative. Dose, five to thirty grains.

#### COMPOUND PILLS OF COLOCYNTH.

R. Compound extract of colocynth, powdered, half an ounce  
Extract of jalap, in powder,  
Calomel, each, three drachms  
Gamboge, in powder, two scruples  
Mix, and with water form mass, to be divided into one hundred and eighty pills.

*U. S. Ph.*

A most excellent cathartic, when it is wished to act on the biliary organs. Dose, one to three or four pills.

R. Powdered aloes  
Scammony, each, eight parts  
Colocynth four parts  
Sulphate of potassa  
Oil of cloves, each, one part  
Rectified spirit sufficient

Pulverize the aloes, scammony, and sulphate of potassa, together; mix the colocynth with them, add oil of cloves, and with the rectified spirit beat into a mass, to be divided into five-grain pills.

*Ed. Ph.*

Dose, five to fifteen grains.

R. Compound extract of colocynth one scruple  
Alcoholic extract of jalap six grains  
Compound powder of scammony  
Calomel, each, ten grains  
Tartar emetic one grain  
Castile soap five grains  
Oil of cinnamon four drops

Beat well together, and form fifteen pills. Dose, one to three, at bedtime. *Meigs.*

R. Extract of colocynth two drachms  
Resin of jalap one drachm  
Soap one drachm and a-half  
Guaiacum three drachms  
Tartar emetic eight grains  
Oil of juniper  
Rosemary, each, four drops  
Syrup of buckthorn sufficient  
Mix well, and divide into four-grain pills. Dose, one to three. *Barclay.*

#### PILLS OF COLOCYNTH AND HENBANE.

R. Extract of colocynth two parts  
henbane one part  
Beat together, with a few drops of rectified spirit, and divide into five-grain pills.

*Ed. Ph.*

Dose, five to twenty grains.

#### COLOCYNTH CLYSTER.

R. Extract of colocynth one scruple  
Common salt three drachms  
Syrup of dogtooth grass one ounce and a-half  
Infusion of chamomile five ounces  
In cerebral affections. *Phæbus.*

#### COLOCYNTH MIXTURE.

R. Colocynth one drachm  
Boiling water six ounces  
Boil for ten minutes, strain, add, when cold,  
Hoffmann's anodyne one drachm  
Syrup of orange peel one ounce  
Mix. A spoonful, three times a-day, in ascites, or hydrothorax. *Augustin.*

#### TINCTURE OF COLOCYNTH.

R. Colocynth eight parts  
Star anise one part  
Alcohol ninety-six parts  
Macerate for three days, and filter. Dose, fifteen to twenty drops. *Van Mons.*

#### TINCTURE OF COLOCYNTH MIXTURE.

R. Tincture of colocynth two drachms  
Solution of antimoniated soap six drachms  
Mix. Dose, twenty to thirty drops a-day, in lepra and obstinate cutaneous affections. *Heim.*

### COLOMBA.

#### COLUMBO.

Columbo is the root of *Cocculus palmatus*, a climbing plant, a native of Mozambique.

*Sec. Syst. Diæc. hexand. Nat. Syst. Menispermaceæ.*

Hooker, Bot. Mag. 2970-71. Griffith, Med. Bot. 103.

As found in the shops, the root is in round slices, externally of a brown, wrinkled appearance, internally yellow. It is somewhat aromatic, and has a very bitter taste. It is an excellent bitter tonic, with no astringency. It is useful in diseases where the pure bitters are required, and generally agrees with the stomach. Dose, in powder, is from ten to thirty grains.

#### POWDER OF COLUMBO AND IRON.

R. Powdered columbo  
Subcarbonate of iron  
Powdered rhubarb  
ginger, each, one drachm  
Mix, and make eleven powders; one to be taken every four hours. *A. T. Thomson.*

#### POWDER OF COLUMBO AND MAGNESIA.

R. Powdered columbo ten grains  
Magnesia two scruples  
Mix. For a dose. In cardialgia. *Brugnatelli.*



## POWDER OF COLUMBO AND GINGER.

R. Powdered columbo  
subcarbonate of iron  
rhubarb  
ginger, each, one drachm  
Mix, and divide into twelve powders. One  
to be taken three times a-day, in syrup. *Ellis.*

## POWDER OF COLUMBO AND TARTRATE OF IRON.

R. Tartrate of iron and  
potassa two scruples  
Powdered columbo half a drachm  
Mix, and divide into four powders. One  
every three or four hours, in syrup. *Ellis.*

## COMPOUND PILLS OF COLUMBO.

R. Powdered columbo four scruples  
Opium four grains  
Oil of peppermint ten drops  
Syrup of pinks sufficient  
Beat into mass, and form thirty pills. Two,  
three times a-day, in spasmodic vomiting. *St. Marie.*

R. Powdered columbo one drachm  
rhubarb two scruples  
Extract of chamomile two drachms  
Oil of caraway five drops  
Syrup of saffron sufficient  
Form mass, and divide into pills of four  
grains. Four to be taken a-day, in mania  
with amenorrhœa. *Augustin.*

## INFUSION OF COLUMBO.

R. Bruised columbo half an ounce  
Boiling water one pint  
Macerate two hours in a covered vessel,  
and strain. *U. S. Ph.*

Dose, two fl. ounces, three or four times a-day.

## INFUSION OF COLUMBO AND GINGER.

R. Bruised columbo one ounce  
ginger two drachms  
Boiling water one pint  
Infuse, and strain. A wineglass, cold,  
every two hours, in chronic diarrhœa. *Ellis.*

## INFUSION OF COLUMBO, RHUBARB, &amp;c.

R. Bruised caraway  
columbo  
rhubarb, each, one scruple  
Boiling water eight fl. ounces  
Digest for two hours, and strain.

R. To strained liquid three half fl. ounces  
Add  
Tincture of rhubarb one fl. drachm  
Syrup of ginger two fl. drachms  
Mix. Dose, a teaspoonful to a tablespoonful,  
in diarrhœa. *Ellis.*

## MIXTURE OF COLUMBO.

R. Columbo half a drachm  
Boil in  
Water three to five fl. ounces  
Strain, and add  
Carbonate of potassa ten grains  
Lemon juice three fl. drachms  
Tincture of opium twelve drops  
Mix. A tea to a table spoonful, every  
hour, as an anti-emetic. *Ellis.*

## COMPOUND DECOCTION OF COLUMBO.

R. Columbo  
Quassia, each, two drachms  
Orange peel one drachm  
Rhubarb one scruple  
Subcarbonate of potassa half a drachm  
Water twenty fl. ounces  
Boil down to a pint, strain, and add  
Tincture of lavender half fl. ounce  
*Coze.*

## EXTRACT OF COLUMBO.

R. Bruised columbo two parts  
Alcohol three parts  
Water nine parts  
Macerate for twenty-four hours, distil off  
the alcohol, and evaporate to proper con-  
sistence. *Cottreau.*

## TINCTURE OF COLUMBO.

R. Columbo bruised four ounces  
Diluted alcohol two pints  
Macerate for fourteen days, and filter.  
*U. S. Ph.*

Dose, one to four fl. drachms.

## MIXTURE OF COLUMBO AND CASCARILLA.

R. Powdered columbo half an ounce  
Water ten fl. ounces  
Boil to six ounces, add, towards close,  
Cascarilla two drachms  
Strain, and add  
Tincture of orange peel two drachms  
Syrup of cinnamon one ounce  
A spoonful every hour, in chronic diarrhœa.  
*Berends.*

## MIXTURE OF COLUMBO AND SALEP.

R. Extract of columbo one drachm  
Decoction of salep three ounces  
Fennel sugar two scruples  
Mix. Two spoonfuls a-day, in the diarrhœa  
of children. *Wendt.*

## COMPTONIA.

## SWEET FERN.

A shrubby, indigenous plant, found in the  
northern and middle States.  
*Sex. Syst.* Monœc. triand. *Nat. Syst.* Myricaceæ.  
Aiton, Hort. Rev. iii. 334. Griffith. Med. Bot.  
584.



It is aromatic, especially when bruised. It is a mild astringent, and is used in bowel complaints, in the form of decoction.

## CONIUM.

## HEMLOCK.

This is an umbelliferous, poisonous plant, the *Conium maculatum*, a native of Europe, but naturalized in many parts of this country, growing in waste places.

*Sec. Syst.* Pentand. digyn. *Nat. Syst.* Apiaceae.

Linn. Sp. Pl. 349. Griffith, Med. Bot. 339. Both the seeds and the leaves are used. The latter have a strong, unpleasant, narcotic odor, and a somewhat bitterish taste; the seeds possess these qualities in a less degree. They are both narcotic, but neither stimulant nor sedative, and are given in a variety of complaints, to alleviate, especially in malignant tumors, in which they are thought to exert a curative influence. The dose, in powder, is from three to four grains of the leaves; and of the seeds, rather less; twice a-day, gradually increasing.

## POWDER OF HEMLOCK.

R. Powdered hemlock five grains  
liquorice six grains

Make a powder, to be taken three times a-day. In scirrhus affections, scrofula, old ulcers, &c.

## FECULA OF HEMLOCK.

R. Hemlock juice at will  
Place on the fire, remove the coagulum, wash it well, dry, and pulverize. Dose, five to twenty grains. *Van Mons.*

## EXTRACT OF HEMLOCK.

R. Fresh hemlock leaves one pound  
Bruise in a stone mortar, sprinkling on them a little water; express the juice, heat to boiling point, strain, and evaporate to proper consistence. *U. S. Ph.*

Dose, one grain, morning and evening, gradually increased till it affects the system.

## ALCOHOLIC EXTRACT OF HEMLOCK.

R. Hemlock leaves, in coarse powder, one pound  
Diluted alcohol four pints  
Moisten powder with half a pint of the alcohol, and allow to macerate for twenty-four hours, place in percolating apparatus and add remainder of alcohol; when this has disappeared, add water so as to keep powder covered. Stop process when the liquid passing, causes precipitate in that previously obtained. Distil off alcohol, and evaporate to proper consistence.

*U. S. Ph.*

Dose, one to two grains, twice a-day, gradually increasing.

## PILLS OF HEMLOCK AND IPECACUANHA.

R. Extract of hemlock  
Dover's powder, each, ten grains  
Mix, and form five pills. Two at bedtime, in pulmonary irritation, with rheumatic and other local pains. *Ellis.*

R. Extract of hemlock five drachms  
Ipecacuanha one drachm  
Mucilage of gum Arabic sufficient  
Mix, and make four grains.

## PILLS OF HEMLOCK AND CALOMEL.

R. Extract of hemlock two scruples  
Calomel fifteen grains  
Mix, and form fifteen pills. One, three times a-day, in syphiloid affections. *Ellis.*

## PILLS OF HEMLOCK AND DANDELION.

R. Extract of hemlock dandelion  
Gum Arabic  
Soap, each, one drachm  
Honey sufficient  
Mix, and form three-grain pills. In glandular and other tumors. *Brera.*

## INFUSION OF HEMLOCK.

R. Hemlock leaves half an ounce  
Boiling water one pint  
Infuse and strain. As a wash to cancerous and malignant ulcers. *Ellis.*

## HEMLOCK COLLUTORY.

R. Hemlock leaves two drachms  
Poppy seeds one drachm  
Henbane seeds half a drachm  
Milk half a pint  
Boil slightly, and strain. In rheumatic toothache. *Phœbus.*

## TINCTURE OF HEMLOCK.

R. Hemlock leaves four ounces  
Diluted alcohol two pints  
Macerate for fourteen days, express, and filter. *U. S. Ph.*  
Dose, thirty drops to a fl. drachm.

## ETHEREAL TINCTURE OF HEMLOCK.

R. Hemlock leaves one part  
Sulphuric ether four parts  
Macerate for two days, and filter. *Soubéiran.*

## OINTMENT OF HEMLOCK.

R. Fresh hemlock leaves  
Prepared lard, each, two pounds  
Boil till the leaves becomes crisp, then express through linen. *Dub. Ph.*  
R. Juice of hemlock leaves one part  
Lard four parts  
Boil till moisture is expelled, and express

through a cloth. As a dressing to painful ulcers.

*Swediaur.*

#### OIL OF HEMLOCK.

R. Fecula of hemlock one part  
Olive oil four parts  
Mix, and strain. As a friction to the abdomen in ileus, and to the anus in hemorrhoids.

*Van Mons.*

#### HEMLOCK PLASTER.

R. Elemi two parts  
White wax one part

Melt together, and add  
Alcoholic extract of hemlock nine parts

As an application to painful ulcers and malignant tumors.

*Guibourt.*

R. Juice of hemlock twelve parts  
Powdered hemlock six parts  
Evaporate to a pasty consistence, and add to, a melted mixture of

Yellow wax ten parts  
Turpentine four parts  
Olive oil six parts

Used as above.

*Pideret.*

#### COMPOUND HEMLOCK PLASTER.

R. Yellow wax eight parts  
Resin sixteen parts  
Fecula of hemlock forty-eight parts  
Melt together, and add a melted mixture of  
Gum ammoniac four parts  
Turpentine one part

Stir well till cold. Used as above.

*Van Mons.*

R. Hemlock plaster one ounce  
Burgundy pitch  
Diachylon, each, half an ounce

Mix, and spread, then sprinkle with from six to twelve grains of tartar, according to the age of the patient. Said to be very useful in whooping-cough.

R. Soap plaster one ounce  
Extract of hemlock half an ounce  
Powdered belladonna two drachms

Mix. *Hamburg Cod.*

#### CATAPLASM OF HEMLOCK.

R. Powdered hemlock  
Linseed meal, each, one ounce  
Fecula of hemlock  
Boiling water, each, sufficient

Mix. As an application to cancerous and other painful ulcers.

*Guibourt.*

R. Hemlock leaves a handful  
Henbane leaves half a handful  
Lard half an ounce  
Rose oil one ounce  
Decoction of mallows sufficient

Mix, and boil to the consistence of cataplasm.

*Pierquin.*

R. Powdered hemlock two ounces  
Carrot juice one pound  
Tincture of opium and saffron three drachms  
Linseed meal sufficient

Make a cataplasm. In cancerous ulcers.

*Piderot.*

#### MIXTURE OF HEMLOCK AND PAREGORIC.

R. Extract of hemlock one drachm  
Paregoric elixir

Syrup of tolu, each, half fl. ounce  
Rose water four fl. ounces

Mix. From half to a teaspoonful once in four hours, to a child a year old, watching the effect, in pertussis.

*Pearson.*

#### SUPPOSITORY OF HEMLOCK.

R. Extract of hemlock  
White wax, each, one part  
Butter of cocoa four parts

Mix, in painful hemorrhoids and spasms of the rectum.

*Beral.*

### CONTRAYERVA.

#### CONTRAYERVA.

Contrayerva is the root of *Dorstenia contrayerva*, and other species, all natives of South America, Mexico, and the West Indies. They are perennial, dwarf, herbaceous plants, usually growing in high, rocky places.

*Sec. Syst.* Tetrand. monog. *Nat. Syst.* Monacæ.

Linn. Mat. Med. No. 124. Griffith, Med. Bot. 577.

The root is oblong, hard, rough, and solid, of a reddish-brown color, with numerous, long, yellowish fibres. It has an aromatic odor, and a warm, pungent, somewhat bitterish taste. It is a stimulant, tonic, and diaphoretic, and has been found useful in low states of the system. The dose of the powder is about half a drachm.

#### COMPOUND POWDER OF CONTRAYERVA.

R. Powdered contrayerva six drachms  
Virginia snakeroot two drachms  
Prepared chalk one ounce

Mix. Dose, a teaspoonful, two or three times a day, as a tonic.

*Spielmann.*

#### EXTRACT OF CONTRAYERVA.

R. Contrayerva, bruised, one part  
Boiling water six parts

Infuse for three days, boil, strain, express, and evaporate to proper consistence. Dose, one to two scruples.

*Palat. Cod.*

#### DECOCTION OF CONTRAYERVA.

R. Contrayerva, bruised, one drachm

Water one pint  
Boil for ten minutes, and strain.

*Taddei.*

#### GARGLE OF CONTRAYERVA.

R. Contrayerva half an ounce  
Figs one ounce  
Water eighteen fl. ounces  
Mix, and boil down to two-thirds.

*Saunders.*

#### TINCTURE OF CONTRAYERVA.

R. Contrayerva one part  
Diluted alcohol eight parts  
Digest in one-half the alcohol for four days, strain and digest with the other half of the alcohol; strain, and filter the united liquids. Dose, thirty to forty drops.

*Guibourt.*

#### COMPOUND TINCTURE OF CONTRAYERVA.

R. Contrayerva  
Virginia snakeroot, each,  
one ounce and a-half  
Juniper berries one ounce  
Spirit of ammonia six fl. ounces  
Alcohol one pint  
Macerate for four days, express, and filter.  
Dose, forty to eighty drops, as a stimulating diaphoretic.

*Lip. Dispen.*

#### CONTRAYERVA MIXTURE.

R. Powdered contrayerva eight grains  
Cinnamon water one fl. ounce and a-half  
Nutmeg water two fl. drachms  
Syrup of cinnamon three drachms  
Mix. A spoonful as a stomachic.

*Swediaur.*

R. Gum tragacanth  
Comp. contrayerva powder, each,  
one scruple  
Distilled water one fl. ounce  
Cinnamon water three fl. drachms  
Syrup of saffron one fl. drachm  
Mix. As a quieting draught for a woman after delivery.

*Merriman.*

#### CONVOLVULUS PANDURATUS.

##### WILD POTATO.

This is a native plant, with a large perennial root, found in sandy soils in most parts of the United States.

*Ser. Syst.* Pentand. monog. *Nat. Syst.* Convolvulacæ.

Linn. Sp. Pl. 219. Griffith, Med. Bot. (Ipomæa) 476.

The root, as found in the shops, is in circular pieces, of a yellowish-brown color, scarcely any smell, and a bitterish, somewhat acrid taste. It is feebly cathartic, but is said to be a good diuretic

in calculous complaints. Dose, as purgative, forty grains. As a diuretic, it is given in decoction.

#### COPAIBA.

##### COPAIBA.

This is the juice of *Copaifera officinalis* and other species, all large trees, natives of South America and principally of Brazil.

*Ser. Syst.* Decand. monog. *Nat. Syst.* Fabacæ.

Linn. Sp. Pl. 557. Griffith, Med. Bot. 264.

This juice or balsam is clear and transparent, of a pale yellowish color; a peculiar and somewhat unpleasant odor, and a bitterish, pungent, nauseous taste. It is rather more consistent than olive oil when fresh, but, by age, becomes thicker, and may even assume the solidity of a resin. It is stimulant, diuretic, and cathartic, and is principally used in morbid discharges from mucous surfaces, especially those of the genito-urinary organs. The dose is from twenty drops to a fl. drachm, three times a-day.

##### BOLUSES OF COPAIBA.

R. Copaiba two drachms  
Gum Arabic one ounce  
Powdered liquorice sufficient  
Mix, and form mass. Dose, a scruple to two scruples.

*Radius.*

R. Copaiba one ounce  
Calcined magnesia one drachm  
Opium four grains  
Powdered cubebs three drachms  
Syrup of poppies sufficient  
Mix, and divide into boluses of half a drachm. Two to be taken at night, in gonorrhœa.

*Henschel.*

##### PILLS OF COPAIBA.

R. Copaiba two ounces  
Magnesia (freshly prepared) one drachm  
Mix, and set aside, till it concretes into a pilular mass; this to be divided into two hundred pills.

*U. S. Ph.*

Dose, two to six, two or three times a-day.

R. Copaiba  
Powdered cubebs, each, one drachm  
Mucilage of gum Arabic sufficient  
Mix, and divide into three-grain pills. Five to ten a-day.

*Hildenbrand.*

R. Copaiba one ounce  
Dragon's blood half an ounce  
Calomel one drachm  
Conserve of roses four ounces  
Mix, and make pills of six grains. Dose, from three to five a-day.

*Foy.*

##### PILLS OF COPAIBA AND CUBEBS.

R. White wax two drachms  
Melt, by a gentle heat, and add



Copaiba half an ounce  
 Powdered cubebs one ounce  
 Incorporate well, and divide into two hundred and forty pills. *Berens.*

PILLS OF COPAIBA, CUBEBS, AND TURPENTINE.

R. Oil of copaiba  
 cubebs  
 turpentine, each, one fl. drachm  
 Magnesia two drachms  
 Mix, and form sixty pills.

This is said to be an excellent preparation. It was communicated by Mr. Procter, who is unacquainted with the author of it.

COPAIBA CONFECTION.

R. Turpentine one ounce  
 Copaiba half an ounce  
 Mix well, in a warmed mortar, and add  
 Mucilage of gum Arabic one ounce  
 Conserve of roses four ounces  
 Dose, two to three drachms, three times a-day, in obstinate gonorrhœa. *Swediaur.*

R. Copaiba  
 Powdered cubebs, each, four drachms and a-half  
 Yolk of egg one  
 Conserve of roses half an ounce  
 Mix. A teaspoonful, three or four times a-day. *Voght.*

R. Copaiba  
 Powdered cubebs, each, two ounces  
 alum one ounce  
 Opium five grains  
 Incorporate well. One drachm to be taken in the pulp of a prune, night and morning, and rapidly increased to two drachms. Is very effectual in gonorrhœa. *Berton.*

EMULSION OF COPAIBA.

R. Copaiba  
 Mucilage gum Arabic, each, two ounces  
 Water, twelve fl. ounces  
 Rub the copaiba gradually with the mucilage in a mortar, add the water by degrees, constantly rubbing. *Beral.*

INJECTION OF COPAIBA.

R. Copaiba two drachms  
 Mucilage of gum Arabic half an ounce  
 Lime water six fl. ounces  
 Mix well. As an injection in ulcers of the rectum, vagina, or urethra. *Abernethy.*

R. Copaiba half an ounce  
 Yolk of egg sufficient  
 Lime water six ounces

Honey of roses three ounces  
 Mix. As an injection in fistulous ulcers. *Plenck.*

COPAIBA MIXTURE.

R. Copaiba  
 Sweet spirits of nitre, each, half a fl. ounce  
 Powdered gum Arabic  
 sugar, each, one drachm  
 Compound spirits of lavender two fl. drachms  
 Tincture of opium one fl. drachm  
 Distilled water four fl. ounces  
 Mix. A tablespoonful three times a-day in gonorrhœa. *Chapman.*

R. Copaiba  
 Powdered cubebs, each, half an ounce  
 Gum Arabic two drachms  
 Paregoric elixir half a fl. ounce  
 Sugar two drachms  
 Water eight fl. ounces  
 Mix. A tablespoonful every three hours. *Ellis.*

R. Copaiba half an ounce  
 Mint water  
 Alcohol  
 Syrup, each, half a fl. ounce  
 Sweet spirit of nitre half a fl. drachm  
 Mix. To be taken in four doses in a day, followed by demulcent drinks. In chronic gonorrhœa. *Ellis.*

R. Balsam copaiba  
 Sweet spirit of nitre, each, half a fl. ounce  
 Compound spirit of lavender  
 Laudanum, each, one fl. drachm  
 Powdered gum Arabic one drachm  
 Water three fl. ounces  
 Mix. A tablespoonful three times a-day in gonorrhœa. *Chapman.*

R. Copaiba half an ounce  
 Mucilage of gum Arabic two ounces  
 Clarified honey six drachms  
 Solution of potassa two drachms  
 Essence of lemon half a drachm  
 Rose water five fl. ounces  
 Mix. Two to three spoonfuls, three times a-day. *Stephenson.*

R. Copaiba one drachm and a-half  
 Powdered kino one scruple  
 Mucilage of gum Arabic two drachms  
 Syrup of rhatany one ounce  
 Decoction of chamomile four ounces  
 Mix. A spoonful every hour or two. *Foy.*

R. Copaiba half a drachm  
 Tincture of allspice



Syrup of mallows, each, two drachms  
Mucilage of gum Arabic sufficient  
Water one ounce

Mix. To be taken morning and evening.  
*Saunders.*

R. Copaiba  
Syrup of lemon  
Mint water  
Orange-flower water, each, one ounce  
Sulphuric acid one drachm  
Tragacanth sufficient

Mix. A spoonful, morning and evening.  
*Delpech.*

R. Copaiba  
Tolu  
Powdered gum Arabic, each,  
Elixir of vitriol half an ounce  
Distilled water twenty drops  
six fl. ounces

Mix. A tablespoonful, in chronic hoop-  
ing-cough. *Ellis.*

R. Copaiba one drachm  
Carbonate of potassa thirty grains  
Resin of Peruvian bark twenty grains  
Gum Arabic twelve grains  
Aloes two grains  
Syrup of capillaire two ounces  
Cinnamon water

Mint water, each, three fl. ounces  
Mix. Dose, a glass full, several times a-  
day, as an anthelmintic. *Pierquin.*

#### TINCTURE OF COPAIBA.

R. Copaiba one part  
Alcohol eight parts  
Digest for several days, and filter. Dose,  
thirty to sixty drops. *Guibourt.*

#### ALKALINE TINCTURE OF COPAIBA.

R. Copaiba one ounce  
Carbonate of potassa one drachm  
Alcohol four fl. ounces  
Digest, and filter. Dose, twenty-five to  
fifty drops. *Brunswick Ph.*

#### COMPOUND TINCTURE OF COPAIBA.

R. Copaiba one ounce  
Guaiacum two drachms  
Oil of sassafras half a drachm  
Alcohol four and a-half fl. ounces  
Digest with a gentle heat, filter. *Foy.*  
Dose, a drachm, in some infusion.

R. Copaiba one ounce and a-half  
Balsam Peru half an ounce  
Carbonate of  
potassa one drachm and a-half  
Cut saffron two drachms  
Alcohol sixteen fl. ounces  
Mix, and digest for three days, and filter.

Two spoonfuls, two or three times a-day,  
in water or in wine. *Wurtemberg Ph.*

#### OIL OF COPAIBA.

R. Copaiba one ounce  
Water one pint and a-half  
Distil, return product several times, and  
redistil; separate oil. *Ed. Ph.*

Dose, ten to thirty drops, rubbed up with mu-  
cilage and water.

#### COPAIBA CLYSTER.

R. Copaiba one to four drachms  
Extract of opium one grain  
Yolk of egg one  
Decoction of mal-  
lows four to six fl. ounces  
Make an emulsion, as a clyster in gonorr-  
hoea. *Guibourt.*

#### COPAIBA PASTE.

R. Sweet almonds six drachms  
Mallow paste one drachm  
Catechu half a drachm  
Copaiba three drachms  
Rub together into a paste. Dose, a spoon-  
ful. *Phæbus.*

### COPTIS.

#### GOLDTHREAD.

The root of *Coptis trifolia*, a small evergreen  
plant, found in the more northern parts of both  
continents, in wet and boggy situations.

*Sex. Syst.* Polyand. polyg. *Nat. Syst.* Ranun-  
culaceæ.

Salisbury. Linn. Trans. viii. 305. Griffith,  
Med. Bot. 87.

The roots, which are the part used, are long,  
slender, orange-yellow, with no smell, but a  
strong, and purely bitter taste. It is a simple  
tonic bitter, with no astringency. It is used as a  
stomachic, and as a local application to aphthous  
sore mouth. Dose, in powder, ten to thirty  
grains.

#### INFUSION OF GOLDTHREAD.

R. Goldthread one ounce  
Boiling water one pint  
Infuse for an hour, and strain. Dose,  
half fl. ounce to two fl. ounces.  
*Dunglison.*

#### TINCTURE OF GOLDTHREAD.

R. Goldthread one ounce  
Diluted alcohol one pint  
Macerate for a week, and filter. Dose,  
one fl. drachm to three fl. drachms.

*Wood.*

### CORIANDRUM.

#### CORIANDER.

This is the fruit of *Coriandrum sativum*, an  
annual plant, a native of the south of Europe,

but naturalized in many other parts of that quarter of the world, and also extensively cultivated.

*Sex. Syst.* Pentand. digyn. *Nat. Syst.* Apiaceae.

Linn. Sp. Pl. 367. Griffith, Med. Bot. 341.

The fruit is somewhat globular, of a grayish, or brownish-yellow color, and often separated into two portions, or mericarps. It has a pleasant aromatic smell and taste. It is principally used as an adjuvant to other articles, to disguise their taste, or to modify their griping qualities. Dose, from a scruple to a drachm.

#### COMPOUND POWDER OF CORIANDER.

R. Powdered coriander one drachm and a-half  
Ivory filings  
Burnt hartshorn  
Prepared chalk, each, one scruple  
Powdered cinnamon half a scruple  
Sugar of roses sufficient  
Mix well. A teaspoonful, after eating, as a stomachic. *Pierquin.*

R. Powdered coriander  
rhubarb  
columbo, each, ten grains  
Mix. To be taken at bedtime, in dyspepsia with flatulence and costiveness. Stomachic. *Ainslie.*

#### TINCTURE OF CORIANDER.

R. Coriander one part  
Diluted alcohol eight parts  
Macerate for a week, and filter. *Beral.*

#### COMPOUND WATER OF CORIANDER.

R. Coriander eight ounces  
Citron water one fl. ounce  
Nutmeg  
Storax  
Benzoin, each, half an ounce  
Vanilla three drachms  
Alcohol forty-eight fl. ounces  
Macerate for two days, and distil. Dose, half fl. ounce, as a stomachic and carminative. *Spielmann.*

### CORNU.

#### HARTSHORN.

This is officially the horn of the *Cervus claphas*, or European stag; but that of our native species has the same properties. It is found in the shops, in the form of shavings, which are of a yellowish white color, friable, and without smell or taste. They consist principally of gelatine and phosphate of lime, and are employed to make a jelly, which is not superior to any other animal jelly.

#### HARTSHORN JELLY.

R. Hartshorn four ounces  
Water eight ounces  
Muriatic acid one drachm

Beat together for ten minutes, wash in two or three waters, boil with fresh water for half an hour, express, strain, and add

Sugar four ounces  
Boil down sufficiently for the mixture to jelly, on cooling. *Ferrez.*

#### COMPOUND JELLY OF HARTSHORN.

R. Hartshorn jelly eight ounces  
Paste of sweet almonds one ounce  
Sugar half an ounce  
Orange-flower water one drachm  
Essence of citron twelve drops  
Mix, and heat; then permit to cool. *Guibourt.*

#### BURNT HARTSHORN.

R. Burn pieces of hartshorn in an open vessel till quite white; powder, and prepare like prepared chalk. *Lond. Ph.*

Dose, half a drachm to two drachms.

#### DENTIFRICE OF BURNT HARTSHORN.

R. Powdered burnt hartshorn one ounce  
Orris root two drachms  
Dragon's blood one drachm  
Oil of roses two drops  
Mix. *Steph. & Church.*

### CORNUS.

#### DOGWOOD.

### CORNUS CIRCINATA.

#### ROUND-LEAVED DOGWOOD.

A large shrub, native of the United States, with a bitter, astringent, aromatic bark.

### CORNUS FLORIDA.

#### TREE DOGWOOD.

A small tree found in most parts of the United States, flowering early in the spring. The bark, especially of the root, has a bitter, astringent, somewhat aromatic taste, and a faint odor.

### CORNUS SERICEA.

#### SWAMP DOGWOOD.

A large shrub, like the others a native of this country, with a bark of the same qualities as them.

*Sex. Syst.* Tetrand. monog. *Nat. Syst.* Cornaceae.

The barks of these shrubs and trees are tonic and astringent, and have much the same properties as Peruvian bark, and may be used as a substitute for it. That of *C. Florida* is said to contain a peculiar bitter principle, which has been

called *cornine*. The dose of the powder is from a scruple to a drachm.

#### DECOCTION OF DOGWOOD.

R. Dogwood bark, bruised, one ounce  
Water one pint

Boil for half an hour, and strain. A wine-glassful every hour, in the apyrexia of intermittents. *U. S. Ph.*

R. Dogwood bark  
Sassafras, each, six ounces  
Water eight pints

Boil, and strain. Given as above. *Niemann.*

#### PILLS OF ROUND-LEAVED DOGWOOD.

R. Extract of round-leaved dog-wood one drachm and a-half  
Powdered ginger ten grains  
Dried carbonate of soda ten grains  
Mix, and form twenty-four pills. *Reece.*

#### WINE OF ROUND-LEAVED DOGWOOD.

R. Extract of round-leaved dog-wood three drachms  
White wine one pint and a-half  
Digest for fourteen days, and filter. *Reece.*

### COTULA.

#### MAYWEED.

A small annual syngenesious plant, a native of Europe, and extensively naturalized in the United States. It is the *Maruta cotula* of botanists.

*Sex. Syst.* Syng. frust. *Nat. Syst.* Asteraceæ.

Decandolle, Prod. vi. 13. Griffith, Med. Bot. 399.

The whole herb has a strong, unpleasant smell, and a bitter, warm taste. It has much the same properties as chamomile as an internal remedy, and may be used as a substitute for it; but its disagreeable odor renders it nauseous to most persons. It is also employed in amenorrhœa, and as an antispasmodic. It is usually given in infusion.

#### INFUSION OF MAYWEED.

R. Mayweed half an ounce  
Boiling water one pint  
Macerate for a quarter of an hour, in a covered vessel, and strain. Used in same cases, and in same manner as infusion of chamomile.

#### CATAPLASM OF MAYWEED.

R. Mayweed, fresh, at will  
Bruise, or cut very fine. When applied as a cataplasm, it produces redness and vesication as rapidly as Spanish flies. *Ashley.*

### CREASOTUM.

#### CREASOTE.

A peculiar substance, analogous to the volatile oils, existing in the products of the distillation of wood. It is a colorless, oleaginous fluid, of a burning, caustic taste, and of an odor resembling that of smoked meat. It is corrosive, but, in a diluted state, is an effectual preserver of animal substances. It is irritant, narcotic, styptic, &c., and has been employed in a variety of diseases, both internally and as a local application.

#### CREASOTE.

R. Tar at will  
Distil, changing the recipients several times, till the residue has the consistence of pitch; agitate the heavy oil that passes with a little concentrated sulphuric acid; then mix it with its own volume of water, and rectify in small retorts; dissolve the product which sinks to the bottom in a hot solution of potassa, aided by a gentle heat; when it cools, add a slight excess of sulphuric acid, separate the oil, and distil it in small quantities at a time; again rectify it two or three times. Dose, one to two drops, mixed with water.

#### CREASOTE MIXTURE.

R. Creasote six drops  
Powdered mallows  
Sugar, each, one drachm  
Mix well, and divide into three powders, to be taken during the day. In hemoptysis and phthisis. *Radiis.*

#### CREASOTE PILLS.

R. Creasote one drachm  
Powdered mallow root sufficient  
to make one hundred and ten pills. Said to be beneficial in acute rheumatism. Four or five to be taken, morning and evening. *Riech.*

R. Creasote one drachm  
Extract of liquorice, each,  
one drachm and a-half  
Water sufficient

Beat into mass, and make pills of two grains. Two, morning and evening, in phthisis and laryngitis. *Radiis.*

R. Creasote ten drops  
Powdered liquorice  
Mucilage of gum Arabic, each, sufficient

Mix, and form twenty pills. Dose, one, three times a-day. In bronchitis, neuralgia, &c. *Ellis.*

R. Creasote one drachm  
Extract of liquorice



Galbanum, each, half a drachm  
Powdered mallows two drachms  
Form mass, and divide into one hundred  
and twenty pills. Six, four times a-day, in  
phthisis. *Riech.*

## ALCOHOLIC SOLUTION OF CREASOTE.

R. Creasote one part  
Alcohol sixteen parts  
Mix. A drop or two placed in the cavity  
of an aching tooth, will afford relief.

*Marinus.*

R. Creasote one fl. drachm  
Alcohol two fl. ounces  
Mix. Used with water as a mouth wash,  
to correct fetor of the mouth, and to check  
caries of the teeth. *Buchner.*

R. Creasote one fl. drachm  
Alcohol one fl. ounce and a-half  
Tincture of cochineal six fl. drachms  
Oil of mint thirty-six drops  
Mix. Used as above. *Ringhini.*

## CREASOTE LOTION.

R. Creasote half a drachm  
Water five ounces  
Mix. As a lotion in psora, &c. *Radiis.*

R. Creasote ten drops  
Vinegar two fl. drachms  
Water two fl. ounces  
Mix. As an application to phagedenic  
ulcerations and chancres. *Short.*

## CREASOTE COLLUTORY.

R. Creasote three drops  
Compound spirit of  
lavender twenty drops  
Distilled water half fl. ounce  
Mix. *Black.*

R. Creasote four drops  
Distilled water two fl. ounces  
Mix. In irritation of the gums.  
*Fremanger.*

R. Creasote half a fl. drachm  
Powdered gum  
Arabic one ounce and a-half  
Camphor  
water two fl. ounces and a-half  
Mix. To be used every two hours in  
aphthous ulceration of the mouth.  
*Magendie.*

## CREASOTE MIXTURE.

R. Creasote  
Acetic acid, each, sixteen drops  
Compound spirit of juniper  
Syrup each one fl. ounce  
Water fourteen fl. ounces  
Mix the creasote with the acid, gradually

add the water, and then the spirit and  
syrup. *Ed. Ph.*

Dose, one fl. ounce.

R. Creasote two to four drops  
Mucilage of gum Arabic one ounce  
Infusion of saleg five ounces  
Sugar one drachm  
Mix. A spoonful every two hours in  
the colliquative diarrhœa of phthisis.

*Radiis.*

R. Creasote five drops  
Mucilage of gum Arabic three fl. ounces  
Syrup of mallows one fl. drachm  
Mix. A spoonful every three hours in  
hemoptysis. *Santoni.*

R. Creasote one drop  
Camphor water  
Compound infusion of  
gentian, each, six fl. drachms.  
Mix. To check vomiting. *Santoni.*

## CREASOTE OINTMENT.

R. Creasote half a fl. drachm  
Lard one ounce  
Melt the lard, add the creasote, and stir  
till cold. *U. S. Ph.*

As an application in scaly, cutaneous eruptions, ulcers, &c.

R. Simple cerate  
Oil of almonds, each, one ounce.  
Creasote thirty drops  
Mix. As an application in scrofulous  
caries. *Fremanger.*

## COMPOUND OINTMENT OF CREASOTE.

R. Creasote  
Solution of subacetate of  
lead, each, ten drops  
Extract of opium one grain and a-half  
Lard one ounce  
Mix. As an application to chilblains.  
*Devergie.*

R. Creasote half a drachm  
Purified animal charcoal one drachm  
Alcohol one fl. drachm and a-half  
Spermaceti  
ointment, one ounce and a-half  
Mix. Used as an application to burns, to  
be diluted, if necessary. *Sutro.*

## CROCUS.

## SAFFRON.

Saffron is the stigmas of *Crocus sativus*, a bulbous rooted plant, native of Greece, Asia Minor, &c., and extensively cultivated in many parts of Europe.

*Sex. Syst.* Triand. monog. *Nat. Syst.* Iridaceæ.



Saffron has a peculiar, sweetish, fragrant odor, a warm, bitter taste, and is of an orange red color. It was at one time much used as an excitant, narcotic aromatic and emmenagogue, but is seldom employed in this country, except as a coloring ingredient in compound preparations. Dose, from ten to thirty grains.

## PILLS OF SAFFRON.

R. Saffron  
Myrrh  
Sulphur, each, one drachm  
Inspissated bile sufficient  
Mix, and form one hundred and fifty pills.  
Dose, twelve a-day, as an emmenagogue.  
*Phabus.*

## TINCTURE OF SAFFRON.

R. Saffron, cut fine two ounces  
Proof spirit two pints  
Digest for fourteen days, express, and filter.  
*Ed. Ph.*  
Dose, one to two fl. drachms.

## COMPOUND TINCTURE OF SAFFRON.

R. Saffron one ounce  
Myrrh two ounces  
Socotrine aloes ten ounces  
Cinnamon  
Mace  
Nutmeg, each, half an ounce  
Orange-flower water one pint  
Alcohol sixteen pints  
Digest for two days, distil off eight pints.  
*Cottreau.*

## ELIXIR DE GARUS.

R. Compound tincture of saffron eight pints  
Syrup of maidenhair ten pints  
Mix, color with caramel, dissolved in Orange-flower water eight fl. ounces  
Used as a stomachic and carminative.  
*Foy.*

## INFUSION OF SAFFRON.

R. Saffron two drachms  
Boiling water two pints  
Infuse, and strain. Advised in debility of the digestive organs.  
*Beral.*

## SYRUP OF SAFFRON.

R. Saffron ten drachms  
Boiling water one pint  
White sugar three pounds  
Macerate the saffron in the water for twelve hours, strain, and add the sugar.  
*Lond. Ph.*

Slightly stimulant.

## SAFFRON COLLYRIUM.

R. Saffron one part  
Boiling water two hundred parts  
Infuse, strain, and add

## Tincture of opium

one part  
*Phabus.*

## SAFFRON OINTMENT.

R. Cut saffron one scruple  
Camphor two scruples  
Oil of henbane two drachms  
Goulard's cerate six drachms  
Mix. As an application to painful hemorrhoids.  
*Speilmann.*

## CUBEBA.

## CUBEBS.

Cubebs are the berries or fruit of *Piper cubeba*, a climbing perennial vine, native of many parts of the East Indies.

*Ser. Syst.* Diand. trigyn. *Nat. Syst.* Piperaceæ.

*Linn. Sp. Pl.* 90. *Griffith, Med. Bot.* 567.

Cubebs somewhat resemble black pepper, but are of a lighter color, and are furnished with a short stalk. The stalk is thin and hard, and the seed round, white, and oily. The taste is acrid, peppery, and camphoraceous; the odor aromatic and pleasant. Cubebs are stimulant, with a special action on the genito-urinary organs, and have been much used in gonorrhœa, leucorrhœa, &c., and have also been found useful in piles, bronchitis, &c. The dose of the powder is from ten grains to three drachms, according to circumstances.

## POWDER OF CUBEBS.

R. Powdered cubebs half a drachm to one drachm  
ipeacacuanha eighth of a grain  
Oil of peppermint half a drop  
Mix. To be taken four times a-day, in gonorrhœa.  
*Schmidt.*

## POWDER OF CUBEBS AND ERGOT.

R. Powdered ergot two scruples  
cubebs one ounce  
cinnamon half a drachm  
sugar one drachm  
Mix, and divide into eight powders. One to be given three or four times a-day. In gonorrhœa, gleet, leucorrhœa, &c. *Ryan.*

## POWDER OF CUBEBS AND HEMLOCK.

R. Powdered cubebs half a drachm to a drachm  
Extract of hemlock half a grain  
Prepared oyster shell five grains  
Mix. To be taken four times a-day, in gonorrhœa.  
*Phabus.*

## POWDER OF CUBEBS AND ALUM.

R. Powdered cubebs two ounces  
alum half an ounce  
Mix, and divide into nine powders. One to be taken three times a-day. *Ricord.*

## CUBEBA LOZENGES.

R. Powdered cubebs two drachms  
Balsam of tolu six grains

Mix, and add

Extract of liquorice one ounce

Syrup of balsam of Peru one drachm

Gum Arabic sufficient

Rub well together, and form lozenges of ten grains. One of these, permitted gradually to melt in the mouth, alleviates the obstruction in the nose, in coryza. *Spitta.*

## ELECTUARY OF CUBEBS.

R. Powdered cubebs half an ounce  
Clarified honey sufficient

Mix. Three or four teaspoonfuls a-day, in gonorrhœa, mucous discharges from the bladder, &c. *Radius.*

R. Powdered cubebs  
Balsam copaiba, each, two ounces  
Powdered alum one ounce

Extract of opium five grains

Rub together. Dose, one drachm, night and morning, in the pulp of a prune, rapidly increasing the dose to two drachms. In gonorrhœa. *Beral.*

## INJECTION OF CUBEBS.

R. Powdered cubebs one ounce  
Water one pint

Boil, and strain. Add

Extract of belladonna one scruple

In gonorrhœa and leucorrhœa. *Soubeiran.*

## CLYSTER OF CUBEBS.

R. Powdered cubebs one to four drachms  
Decoction of mallows six ounces

Mix. To be administered, night and morning, in gonorrhœa. *Foy.*

## ETHEREAL EXTRACT OF CUBEBS.

R. Powdered cubebs one pound  
Sulphuric ether sufficient

Introduce the powder into a displacer, insert the lower end into a closely fitting bottle, add the ether carefully, cover the top of the filter with wet bladder pierced with several pin-holes. The flow should be very gradual. Introduce the tincture into a large retort, and distil, by means of a water-bath, into a well-cooled receiver, till five-sixths have passed over. Continue the evaporation at a heat below 120° F., till the extract is of proper consistence. *W. Procter.*

## EMULSION OF ETHEREAL EXTRACT OF CUBEBS.

R. Ethereal extract of cubebs two drachms  
Powdered gum Arabic half an ounce  
sugar one drachm

Water three ounces and a-half

Mix. A tablespoonful is equal to two drachms of cubebs. *W. Procter.*

## ALCOHOLIC ETHEREAL EXTRACT OF CUBEBS.

R. Powdered cubebs at will

Exhaust by ether, by means of a displacement apparatus, act on residue with diluted alcohol, distil the two tinctures separately. Evaporate the residue of the alcoholic tincture by means of a water-bath; add both together, and let the remaining ether evaporate spontaneously. *Labelonge.*

## LOZENGES OF ALCOHOLIC ETHEREAL EXTRACT OF CUBEBS.

R. Extract of cubebs eight ounces  
Alcohol two pints

Dissolve, and add

Powdered sugar one pound

Oil of peppermint eighteen drops

Mix, and allow alcohol to evaporate by a gentle heat; reduce to powder, and add

Mucilage tragacanth sufficient

Mix, and divide into lozenges of six to eighteen grains. *Labelonge.*

## CUBEBA MIXTURE.

R. Powdered cubebs two drachms  
Carbonate of soda half a drachm

Mucilage of gum Arabic six fl. drachms

Mint water six fl. ounces

Mix. A tablespoonful every hour.

*Fosbroke.*

R. Powdered cubebs two drachms  
Subnitrate of Bismuth half a drachm

Mucilage of gum Arabic half fl. ounce

Syrup six fl. drachms

Water six fl. ounces

Mix. A tablespoonful four times a-day.

*Fosbroke.*

Both these are recommended in the various affections of mucous membranes.

R. Powdered cubebs two drachms  
Wine two ounces

Essence of bergamot one drop

Mix. To be taken every hour or two.

*Pierquin.*

## TINCTURE OF CUBEBS.

R. Bruised cubebs four ounces  
Diluted alcohol two pints

Macerate for fourteen days, express, and filter. *U. S. Ph.*

Dose, one to two drachms, as a stomachic and carminative, or in advanced stage of gonorrhœa.

## SYRUP OF ALCOHOLIC ETHEREAL EXTRACT OF CUBEBS.

R. Extract of cubebs three ounces

Mucilage of gum Arabic      sufficient  
 Peppermint water      one pint  
 White sugar      two pounds  
 Mix. A teaspoonful, several times a-day,  
 in a glass of water.      *Labelonye.*

## OIL OF CUBEBS.

R. Powdered cubebs      one part  
 Water      two parts  
 Distil, and collect the oil.      *Giordano.*  
 Dose, ten to twelve drops, gradually increased.  
 Given in emulsion, or in gelatin capsules.

MIXTURE OF OIL OF CUBEBS AND  
COPAIVA.

R. Oil of cubebs      one scruple  
 Copaiba      two ounces  
 Mix. A teaspoonful, four times a-day.      *Beral.*

## CUNILA.

## DITTANY.

The whole herb of *Cunila mariana*. A native  
 plant, found in most places in the United States.  
*Sex. Syst.* Diand. monog. *Nat. Syst.* Lamiaceæ  
 Linn. Sp. Pl. 30. Griffith, Med. Bot. 509.  
 It has a powerful, aromatic odor, and a warm,  
 pungent taste. It is stimulant, carminative, su-  
 dorific, and emmenagogue.

## INFUSION OF DITTANY.

R. Dittany      half an ounce  
 Boiling water      one pint  
 Infuse and strain. Used warm, as a  
 diaphoretic and emmenagogue.

## OIL OF DITTANY.

R. Dittany      at will  
 Water      sufficient  
 Distil, and separate oil. As a carminative,  
 in doses of two or three drops, with sugar.

## CUPRUM.

## COPPER.

A brilliant ductile, malleable metal, of a red-  
 dish color, having an unpleasant taste and smell.  
 It is not used in its pure state in medicine, but  
 affords numerous remedial preparations.

## CUPRI ACETAS.

## ACETATE OF COPPER.

R. Pulverized verdigris      at will  
 Acetic acid      sufficient  
 Dissolve, filter, evaporate, and crystallize.      *Van Mons.*

## CUPRI SUBACETAS.

## VERDIGRIS.

## PREPARED SUBACETATE OF COPPER.

R. Verdigris, in powder,      at will  
 Prepared as directed for chalk. *Dub. Ph.*

## POWDER OF VERDIGRIS AND SAVINE.

R. Verdigris      equal parts  
 Savine      equal parts  
 Mix. To be dusted on sores with fungous  
 excrescences.      *Ellis.*

## PILLS OF ACETATE OF COPPER.

R. Acetate of copper      fifteen grains  
 Boiling water      sufficient  
 to dissolve, add  
 Opium      five grains  
 Extract of liquorice      one drachm  
 Powdered liquorice      sufficient  
 Mix, and make one hundred and eighty  
 pills. Dose, three to ten, three times a-  
 day.      *Phœbus.*

## VERDIGRIS AND ALUM.

R. Verdigris  
 Nitre  
 Alum, each,      eight parts  
 Melt together, and add  
 Camphor      one to two parts  
 Much used in Europe as a basis for ophthal-  
 mic solutions, under the name of Beer's  
 divine stone.      *Radiis.*

## OPHTHALMIC WASHES.

R. Beer's divine  
 stone      eight to twelve grains  
 Water      four fl. ounces and a-half  
 Wine of opium      a scruple to one fl. drachm  
 Mix. In chronic ophthalmia. *Benedict.*  
 R. Beer's divine stone three to four grains  
 Elder water      one fl. ounce  
 Tincture of opium      twelve drops  
 Solution of acetate of lead      five drops  
 Mix. Used like the last.      *Rust.*

## COMPOUND VERDIGRIS LOTION.

R. Verdigris  
 Burnt alum, each,      two drachms  
 Honey      half an ounce  
 White wine      one pint  
 Mix. As a wash for indolent venereal or  
 scorbutic ulcers.      *Scherf.*

## METZ'S BALSAM.

R. Linsced oil  
 Olive oil, each,      six ounces  
 Oil of laurel berries      one ounce



Turpentine two ounces  
 Melt by a gentle heat, and add  
 Powdered aloes two drachms  
     verdigris three drachms  
     white vitriol one drachm and a-half  
 Pour into a bottle, and add  
 Oil of juniper half an ounce  
     cloves one drachm  
 Mix. As a dressing to wounds and ulcers.  
*Guibourt.*

## VERDIGRIS OINTMENT.

R. Verdigris, in fine powder, one drachm  
 Simple ointment fifteen drachms  
 Melt the ointment, and add the verdigris,  
 and stir till cold. *U. S. Ph.*

Used as a mild escharotic and stimulant to  
 fungous ulcers, to warts, corns, &c., and obstinate  
 cutaneous affections.

R. Verdigris two drachms  
 Oxide of zine  
 Camphor, dissolved in  
     alcohol, each, six drachms  
 Triturate well, and incorporate with a  
 melted mixture of  
 Lard  
 Suet, each, two ounces  
 and stir till cold  
 Recommended in serofulous ophthalmia.  
*Swediaur.*

## VERDIGRIS PLASTER.

R. Galbanum one ounce  
 Pitch half an ounce  
 Litharge plaster two drachms  
 Melt, and add  
 Verdigris  
 Muriate of ammonia, each, one ounce  
 This is a good application to corns and  
 warts. *Saxon Ph.*

## EGYPTIAN OINTMENT.

R. Verdigris five parts  
 Purified honey sixteen parts  
 Strong vinegar seven parts  
 Burnt alum half a part  
 Mix, and melt by a gentle heat, stirring  
 constantly. This is thought to form an  
 excellent detergent application to ulcers.  
*Giordano.*

## LINIMENT OF VERDIGRIS.

R. Powdered verdigris one ounce  
 Vinegar seven fl. ounces  
 Honey fourteen ounces  
 Dissolve the verdigris in the vinegar,  
 strain, gradually add the honey, and boil  
 down to proper consistence. *Lond Ph.*  
 Used like the last, and also much diluted as a  
 gargle in venereal sore throat.

## CUPRI MURIAS.

## MURIATE OF COPPER.

R. Chloride of potassium seven parts  
 Sulphate of  
     copper eleven and a-half parts  
 Pulverize, mix, and gradually add twelve  
 parts boiling water; on cooling, filter,  
 separate the sulphate of potassa that  
 forms, then permit the crystals of the  
 muriate to form, separate, and dry.  
*Van Mons.*

## CUPREOUS ETHER.

R. Chloride of barium ten parts  
 Sulphate of copper twelve parts  
 Sulphuric ether six parts  
 Triturate the salts together, add the ether,  
 and decant when all the muriate of cop-  
 per is dissolved. Has been recommended  
 in small doses in epilepsy. *Van Mons.*

## MURIATE OF COPPER AND AMMONIA.

R. Muriate of copper  
     ammonia equal parts  
 Dissolve in water, add liquid ammonia,  
 drop by drop, as long as any precipitate  
 takes place, and is again dissolved by the  
 addition of more ammoniac, filter, and  
 evaporate. *Augustin.*

Used in epilepsy, in doses of two to ten grains.

SOLUTION OF AMMONIACAL MURIATE OF  
COPPER AND MERCURY.

R. Copper filings two drachms  
 Calomel two ounces  
 Dissolve the copper in two fl. ounces liquid  
 ammonia, and the calomel in two fl. ounces  
 muriatic acid, with fifteen drops of ni-  
 tric acid; mix the solutions in such pro-  
 portions that the precipitate that first  
 forms is redissolved. *Radius.*

## KOECHLIN'S DROPS.

R. Solution of ammoniacal  
     muriate of copper and  
     mercury two fl. drachms  
 Distilled water twenty fl. ounces  
 Mix. Much praised in obstinate venereal  
 affections, serofula, &c. Dose, a teaspoon-  
 ful after each meal. *Augustin.*

## CUPRUM AMMONIATUM.

## AMMONIATED COPPER.

R. Sulphate of copper half an ounce  
 Carbonate of ammonia six drachms  
 Rub together in a glass mortar till efferves-  
 cence ceases, wrap in bibulous paper, and  
 dry with a gentle heat. *U. S. Ph.*  
 Has been used in epilepsy, chorea, hysteria,



&c. Dose, a quarter to half a grain twice a-day, and gradually increased.

#### SOLUTION OF AMMONIATED COPPER.

R. Ammoniated copper           one drachm  
Distilled water                   one pint  
Dissolve, and filter.           *Lond. Ph.*

As a lotion to foul and indolent ulcers, or internally, in same cases as the powder.

#### INJECTION OF AMMONIATED COPPER.

R. Ammoniated copper           five grains  
Rose water                       eight fl. ounces  
Mix. In gonorrhœa.           *Ellis.*

#### POWDER OF AMMONIATED COPPER AND BELLADONNA.

R. Ammoniated copper two to four grains  
Powdered belladonna  
root                               one to four grains  
Sugar                              one drachm  
Mix, and form six powders, one to be taken every two hours, in epilepsy. *Hildebrand.*

#### PILLS OF AMMONIATED COPPER.

R. Ammoniated copper           two grains  
Crumb of bread                   sufficient  
Mix, and form four pills. One to be taken twice a-day, in epilepsy, gradually increasing the dose. *A. T. Thomson.*

R. Ammoniated copper           fifteen grains  
Crumb of bread                   two scruples  
Sugar                               one scruple  
Liquid ammonia                   sufficient  
Mix, and form thirty pills. Dose, one, three times a-day, gradually increased. In epilepsy. *Van Mons.*

#### COMPOUND PILLS OF AMMONIATED COPPER.

R. Ammoniated copper  
Opium, each,                       ten grains  
Extract of dandelion  
Powdered mallows, each, two scruples  
Mix, and form fifty pills. Dose, five, twice a-day, in diabetes. *Radius.*

#### GARGLE OF AMMONIATED COPPER.

R. Ammoniated copper           eight grains  
Savine water                       six fl. ounces  
Mix. In chronic sore throat. *Kopp.*

#### OINTMENT OF AMMONIATED COPPER.

R. Solution of ammoniated  
copper                               one fl. drachm  
Simple cerate, melted,           one ounce  
Mix well. As a stimulant to indolent ulcers. *Swedliaur.*

### CUPRI SULPHAS.

#### SULPHATE OF COPPER.

##### POWDER OF SULPHATE OF COPPER.

R. Sulphate of copper           twelve grains  
Sugar of milk                   four scruples  
Mix, and divide into four powders. Much praised in croup—given as follows: one is to be administered at once, another dissolved in three spoonfuls of water, one of which is to be taken every hour. *Radius.*

R. Sulphate of copper           four grains  
Sugar of milk                   eight scruples  
Mix, and divide into eight powders. Two a-day in obstinate diarrhœa. *Elliottson.*

#### COMPOUND POWDER OF SULPHATE OF COPPER.

R. Sulphate of copper  
zinc  
Alum  
Carbonate of lead  
Armenian bole                   equal parts  
Melt the three first substances together, pulverize, add the two other articles, and sift.

This is a powerful astringent, and has proved useful as a styptic. *Cottreau.*

#### PILLS OF SULPHATE OF COPPER.

R. Sulphate of copper           four grains  
Extract of einchona           thirty-two grains  
Mix, make mass, and divide into sixteen or twenty pills. One to be taken three times a-day, in obstinate intermittents. *Ellis.*

R. Sulphate of copper  
Ipecacuanha, each,           one drachm  
Syrup                               sufficient  
Form mass, and divide into pills of five grains each. Dose, two to four, every two or three days, in the morning, before eating, in phthisis. *Foy.*

R. Sulphate of copper           six grains  
Powdered calamus               two drachms  
Extract of liquorice  
Water, each,                       sufficient  
Form mass, and divide into ninety-six pills. Four to seven, two or three times, in the apyrexia of obstinate intermittents. *Adair.*

#### PILLS OF SULPHATE OF COPPER AND OPIUM.

R. Sulphate of copper           two grains  
Opium                               four grains  
Conserve of roses               sufficient

Mix, and make sixteen pills. One, three times a-day, in obstinate intermittents.

*Chapman.*

#### COMPOUND PILLS OF SULPHATE OF COPPER.

R. Sulphate of copper two grains  
 Alcohol. ext. cascarilla seventeen grains  
 Opium two grains  
 Syrup of ginger sufficient  
 Mix, and make eight pills. One, three times a-day, in epilepsy. *Ainslie.*

#### ELECTUARY WITH SULPHATE OF COPPER.

R. Sulphate of copper one scruple  
 Opium one grain  
 Armenian bole  
 Catechu, each, one drachm and a-half  
 Syrup sufficient  
 Mix. In obstinate diarrhœa. *Saunders.*

#### GARGLE WITH SULPHATE OF COPPER.

R. Sulphate of copper twenty grains  
 Infusion of sage six fl. ounces  
 Tincture of myrrh  
     catechu  
     kino, each, one drachm  
     pimpinella five drachms  
                  six drachms  
 Honey  
 Mix well. In obstinate salivation. *Kopp.*

#### COLLYRIUM OF SULPHATE OF COPPER.

R. Sulphate of copper  
 Armenian bole, each, eight grains  
 Camphor two grains  
 Boiling water eight fl. ounces  
 Rub well together, permit to settle, and strain. As an application in purulent ophthalmia of infants. *Warc.*

R. Sulphate of copper six grains  
 Camphor one drachm  
 Boiling water eight fl. ounces  
 Rub the camphor with the water, strain, and add sulphate of copper. As a substitute for the above. *Ellis.*

#### SULPHATE OF COPPER LOTION.

R. Sulphate of copper one ounce and a-half  
 Alum five drachms and a-half  
 Sage leaves five ounces  
 Vinegar one pint  
 Solution of muriate of ammonia two pints  
 Boil together for half an hour. Used as an application, in a tepid state, to swellings and contusions. *Purmann.*

#### INJECTION OF SULPHATE OF COPPER.

R. Sulphate of copper six grains  
 Distilled water six fl. ounces

Tincture of opium one fl. drachm  
 Dissolve. As an injection in chronic gonorrhœa. *Ellis.*

R. Sulphate of copper six grains  
 Distilled water four fl. ounces

Dissolve, and add  
 Solution subacetate of lead twenty drops

As a wash and injection in phymosis. *Swedliaur.*

#### OINTMENT OF SULPHATE OF COPPER.

R. Sulphate of copper  
 Calamine, each, five grains  
 Camphor two grains  
 Fresh butter two drachms

Triturate well together. A small portion to be applied to the edges of the eyelids, in the evening, in psorophthalmia. *Rust.*

R. Sulphate of copper  
 Verdigris, each, two drachms  
 Alum half an ounce  
 Corrosive sublimate two scruples  
 Lard one ounce  
 Burgundy pitch one pound

Melt the pitch and lard by a gentle heat, and add the other ingredients, stirring till cold. As a dressing to venereal and fungous ulcers. *Augustin.*

R. Powdered sulphate of copper.  
     catechu, each, four drachms  
     alum nine drachms  
     resin four ounces

Olive oil sufficient  
 Make ointment. As an application to indolent and ill-conditioned ulcers. *Kerr.*

#### SULPHATE OF COPPER STYPTIC.

R. Sulphate of copper three grains  
 Sulphuric acid twenty drops  
 Water two ounces  
 Dissolve. In epistaxis. Twenty to forty drops to be taken in water, every hour. *Thatcher.*

### CYDONIA.

#### QUINCE SEEDS.

These seeds are the product of *Cydonia vulgaris*, a small tree, native of some parts of Europe, but extensively cultivated in this country. The fruit is much used for the purpose of making preserves.

*Sex. Syst.* Icosand. pentag. *Nat. Syst.* Pomaceæ.

Persoon, *Enchirid.* ii. 40. Griffith, *Med. Bot.* 291.

The seeds are inodorous, insipid, and abounding with mucilage, one drachm rendering six ounces of water, viscid. Used like the other bland mucilages.

## DECOCTION OF QUINCE SEEDS.

R. Quince seeds two drachms  
 Distilled water one pint  
 Boil over a slow fire, for ten minutes, and strain. *Lond. Ph.*

R. Quince seeds one ounce  
 Boiling water six fl. ounces  
 Digest on hot coals, for two hours; strain.

Both these are used in ophthalmia, &c.

## QUINCE SEED MIXTURE.

R. Mucilage of quince seeds one ounce  
 Yolk of eggs two  
 Honey of roses three ounces  
 Mix. A teaspoonful occasionally, in cough and hoarseness. *Sainte Marie.*

## BANDOLINE FOR THE HAIR.

R. Mucilage of quince seeds eight fl. ounces  
 Cologne water, or Brandy eight fl. ounces  
 Mix.

Used as an application to the hair, to give gloss and smoothness.

## CYMINUM.

## CUMIN.

Cumin seeds are produced by *Cuminum cuminum*, an umbelliferous plant, a native of Egypt, but cultivated in southern Europe.

*Sex. Syst.* Pentand. digyn. *Nat. Syst.* Apiaceæ.

*Linn. Sp. Pl.* 365. *Lindley, Fl. Med.* 51.

These seeds have a peculiar, strong, heavy odor, and a warm, bitterish, aromatic taste. They are carminative and stimulant, are seldom used internally, but enter into the composition of some warm plasters.

## CUMIN PLASTER.

R. Cumin  
 Caraway  
 Laural berries, each, three ounces  
 Burgundy pitch three pounds  
 Yellow wax three ounces  
 Melt the pitch and wax together, and add the other ingredients, stirring well. *Lond. Ph.*

## D

## DELPHINIUM.

## LARKSPUR.

The *Delphinium consolida* is a native of Europe, but has become partially naturalized in this country, and is also much cultivated in gardens as an ornamental flower.

*Sex. Syst.* Polyand. trigyn. *Nat. Syst.* Ranunculaceæ.

*Linn. Sp. Pl.* 748. *Griffith, Med. Bot.* 88.

Several parts of this plant have been employed medicinally, as the flowers, seeds, and roots. They owe their properties to the presence of an alkaloid, called delphinia. The flowers are said to be diuretic, vermifuge, and emmenagogue, and the seeds and root to be diuretic, &c.

## TINCTURE OF LARKSPUR SEEDS.

R. Larkspur seeds one ounce  
 Diluted alcohol one pint  
 Maccrate for some days, and filter. Dose, ten to twenty drops, three times a-day, in spasmodic asthma. *Augustin.*

## DELPHINIA.

## DELPHINIA.

This alkaloid is prepared from the seeds of different species of *Delphinium*, but generally from those of the *D. staphisagria*.

R. Larkspur seeds at will  
 Water sufficient

Boil, repeat the decoction with another portion of water, till all soluble portions of the seeds are dissolved. Concentrate the united decoctions, add calcined magnesia, and filter after a short ebullition. Wash the precipitate with cold water, and dry it, digest it in alcohol on a water-bath, and permit to crystallize. *Magendie.*

This is used in the same cases as veratria, in doses of a quarter to half a grain, to the extent of two to three grains a-day. It is also employed in ointment or in solution in alcohol.

## SOLUTION OF DELPHINIA.

R. Delphinia one scruple  
 Rectified spirit two fl. ounces  
 Dissolve. For outward use. *Turnbull.*

## OINTMENT OF DELPHINIA.

R. Delphinia ten to thirty grains  
 Olive oil one drachm  
 Rub together, and add  
 Lard one ounce  
 Mix well. *Turnbull.*



## DIANTHUS.

## PINK.

The only species that is officinal is the *D. caryophyllus* or clove pink, a native of the south of Europe, but generally cultivated in gardens, for the beauty and fragrance of its flowers.

*Sec. Syst.* Decand. digyn. *Nat. Syst.* Caryophyllaceæ.

Linn. Sp. Pl. 587. Woodville, Med. Bot. t. 205.

The parts used are the flowers, these should be of a dark red color, and very aromatic. They are principally employed to form a syrup, used as a vehicle for other medicines.

## SYRUP OF CLOVE PINK.

R. Petals of clove pink                      one pound  
Boiling water                                  two pints  
Infuse for twelve hours, strain, and add  
twice the weight of sugar. *Guibourt.*

## DIGITALIS.

## FOXGLOVE.

The foxglove is a native of Europe, but is cultivated in this country, both as an ornamental plant and for medicinal purposes.

*Sec. Syst.* Didynam. angios. *Nat. Syst.* Scrophulariaceæ.

Linn. Sp. Pl. 868. Griffith, Med. Bot. 520.

The parts used are the leaves; these should be dried in the dark, and always kept from the light. When good, they are of a dull green color, a feeble, narcotic odour, and a bitter, unpleasant taste. Digitalis is narcotic, sedative, and diuretic, and, in large doses, poisonous. It is given to fulfil many indications; as a diuretic, as a sedative, and antispasmodic, to reduce the force of the circulation, &c. It is given in substance in the dose of one grain, two or three times a-day, gradually increasing the quantity until some effect is produced on the system.

## POWDERS OF FOXGLOVE.

R. Powdered foxglove                      one grain  
cinnamon                                  four grains  
sugar    ten grains  
Mix. For a single dose, to be repeated  
two or three times a-day. *Radius.*

R. Foxglove                                  a quarter to one grain  
Sulphate of  
quinine                                      a-half to two grains  
Fennel seed                                  six grains  
Sugar of milk                              ten grains  
Mix. To be taken three or four times a-  
day, in phthisis. *Gunther.*

R. Powdered foxglove                      ten grains  
calomel                                      six grains  
valerian                                      two scruples  
assafetida  
castor, each,                      half a drachm  
sugar    one drachm  
Mix, and divide into twenty-four powders.

One, morning and evening, in the convulsions attendant on hydrocephalus.

*Pierquin.*

R. Powdered foxglove                      fifteen grains  
nitre    three drachms  
cremor tartar                      half an ounce

Mix, and divide into six powders. One to be taken every two hours. As a diuretic in dropsies. *Brera.*

R. Powdered foxglove                      six grains  
Golden sulphuret of antimony  
Calomel, each,                      three grains  
Sugar    one drachm

Mix, and divide into six powders. One, every three hours in peripneumonia.

*Radius.*

R. Powdered foxglove                      eight grains  
Extract of opium                      four grains  
Sugar    one ounce  
Oil of peppermint                      four drops

Mix, and divide into eight powders. One in the evening in palpitation of the heart.

*Sainte Marie.*

## EXTRACT OF FOXGLOVE.

R. Fresh juice of foxglove                      at will  
Evaporate to proper consistence, without removing fecula. *Lond. Ph.*

Dose, from half a grain to two grains.

## BOLUS OF FOXGLOVE.

R. Powdered foxglove                      fifteen grains  
Calomel                                      eight grains  
Root of juniper                      one drachm  
Mix, and form four boluses. One, every  
four hours in encephalitis. *Brera.*

R. Powdered foxglove                      twelve grains  
Calomel                                      six grains  
Tartar emetic                              two grains  
Purified honey  
Powdered liquorice root, each, sufficient  
Mix, and form four boluses. One, every  
four hours, in hemoptysis and engorgement of the abdominal viscera. *Brera.*

## PILLS OF FOXGLOVE.

R. Powdered foxglove                      twelve grains  
Calomel                                      six grains  
Opium    two grains  
Conserve of roses                      sufficient  
Mix, and form twelve pills. One to be taken every eight hours, in hydrothorax and ascites. *Ellis.*

R. Powdered foxglove                      four grains  
camphor                                      twelve grains  
Extract of henbane                      eighteen grains  
Mix, and make six pills. Two to be taken at bedtime. Used in maniacal and spasmodic affections. *A. T. Thomson.*



R. Powdered squills four grains  
 myrrh one scruple  
 foxglove ten grains  
 calomel six grains

Triturate together, and add  
 Assafetida half a drachm  
 Extract of gentian sufficient  
 Beat into mass, and divide into fifteen pills.  
 One night and morning, as a diuretic in  
 dropsies. *Paris.*

R. Powdered foxglove  
 opium, each, six grains  
 Conserve of roses sufficient  
 Mix, and make twelve pills. One to be  
 taken every four hours. In asthma, &c.  
*Ellis.*

R. Powdered foxglove one drachm  
 Extract of hemlock  
 rhubarb  
 Aloes, each, half a drachm  
 Gum ammoniac four scruples  
 Oxytel of squills  
 Powdered liquorice root, each, sufficient  
 Mix, and make pills of six grains. Three  
 to be taken morning and evening. In  
 dropsy, &c. *Brera.*

#### INFUSION OF FOXGLOVE.

R. Foxglove leaves one drachm  
 Boiling water half a pint  
 Tincture of cinnamon one fl. ounce  
 Macerate the foxglove with the water, in  
 a covered vessel, for four hours, strain, and  
 add the tincture. *U. S. Ph.*

The dose is half a fl. ounce, twice a-day, till  
 the system is affected.

#### MIXTURE OF FOXGLOVE AND ACETATE OF POTASSA.

R. Infusion of foxglove four fl. ounces  
 Tincture of foxglove one fl. drachm  
 Acetate of potassa one drachm  
 Tincture of opium ten drops  
 Mix. A dessertspoonful three or four times  
 a-day; as a diuretic. *Ellis.*

#### MIXTURE OF FOXGLOVE AND ACETATE OF LEAD.

R. Powdered foxglove three to five grains  
 Solution of subacetate of lead five drops  
 Syrup of orange flowers one ounce  
 Infusion of poppies six ounces  
 Mix. In spoonful doses, in hypertrophy  
 of the heart. *Foy.*

#### MIXTURE OF FOXGLOVE AND TARTARIC ACID.

R. Infusion of foxglove half an ounce  
 Tartaric acid one scruple  
 Carbonate of soda twenty-four grains

Sweet spirit of nitre one drachm  
 Tincture of squills four drops  
 Mint water two ounces

Mix. As a diuretic, in ascites. To be  
 taken twice or thrice a-day. *Dewees.*

#### EXPECTORANT MIXTURE OF FOXGLOVE.

R. Foxglove leaves thirty grains  
 Boiling water sufficient  
 to obtain four ounces of strained infusion,  
 add

Syrup of gum Arabic three ounces  
 Kermes mineral six grains  
 Syrup of mallows one ounce

Mix. To be taken, in teaspoonful doses,  
 in pneumonia and pleurisy. *Brera.*

#### TINCTURE OF FOXGLOVE.

R. Foxglove leaves four ounces  
 Diluted alcohol two pints  
 Macerate for fourteen days, and filter.  
*U. S. Ph.*

Dose, from ten to twenty drops, two or three  
 times a-day.

#### MIXTURE OF TINCTURE OF FOXGLOVE.

R. Tincture of foxglove one fl. drachm  
 opium sixty drops  
 Distilled water two fl. ounces  
 Mix. A teaspoonful, two or three times  
 a-day, in hemoptysis and incipient phthi-  
 sis. *Ellis.*

#### ETHEREAL TINCTURE OF FOXGLOVE.

R. Foxglove leaves one part  
 Sulphuric ether four parts  
 Macerate for two days, and decant. Dose,  
 from ten to twenty drops. *Soubéiran.*

#### VINEGAR OF FOXGLOVE.

R. Foxglove leaves half an ounce  
 Vinegar four fl. ounces  
 Infuse for twenty-four hours, strain, and  
 add  
 Sugar five ounces  
 A teaspoonful, several times a-day. Highly  
 spoken of in incipient phthisis. *Martius.*

#### OINTMENT OF FOXGLOVE.

R. Bruised foxglove leaves one part  
 Lard two parts  
 Melt over a slow fire, until all moisture is  
 driven off, and strain. As an application  
 to chronic ulcers. *Soubéiran.*

#### PLASTER OF FOXGLOVE.

R. Foxglove leaves two drachms  
 Vinegar one fl. ounce  
 Macerate, and evaporate to consistence of  
 an extract, and add  
 Calomel ten grains  
 Elemi ointment eight scruples  
 In chronic glandular swellings. *Sundelin.*

## SYRUP OF FOXGLOVE.

R. Foxglove leaves (European) four ounces  
 Water sufficient  
 Sugar one pound  
 Bruise the foxglove, add sufficient water to render quite moist, exhaust, by process of displacement, evaporate in a water-bath to ten ounces, add sugar, and form syrup. One teaspoonful is equivalent to fifteen grains of digitalis, or about two ounces of infusion. *Duhamel.*

## DIGITALINA.

## DIGITALIN.

R. Powdered foxglove at will  
 Macerate for twenty-four hours in a sufficiency of sulphuric ether, decant, repeat the operation several times, the last on a water-bath. Unite, and filter the tinctures, and distil off the most of the ether, over a water-bath. Treat the residue with distilled water. Add, very gradually, finely powdered litharge, till there is no acid reaction. Evaporate to dryness, treat with sulphuric ether, and evaporate to crystallizing point. *Magendie.*

Dose, from one-sixteenth to one-eighth of a grain.

## PILLS OF DIGITALIN.

R. Digitalin three quarters of a grain  
 Powdered gum Arabic  
 Mucilage of gum Arabic, each, sufficient  
 Mix, and make twenty pills. Dose, one to four daily, in hypertrophy of the heart. *Bouchardat.*

## GRANULES OF DIGITALIN.

R. Digitalin fifteen and a-half grains  
 Sugar one ounce and a-half  
 Water sufficient  
 Mix, and form one thousand granules.  
 Dose, from four to six a-day. *Homolle.*

## DIOSMA.

## BUCHU.

Buchu consists of the leaves of several species of *Diosma*, or more properly *Barosma*, especially of *B. crenata* and *B. seratifolia*. They are small shrubs, natives of the Cape of Good Hope.

*Ser. Syst.* Pentand. monog. *Nat. Syst.* Rutaceæ.

*Linn. Sp. Pl. (Diosma)* 287. Griffith, Med. Bot. 191.

These leaves have a strong, somewhat aromatic odor, and a bitterish, aromatic taste. They are gently stimulant and diuretic, and are much used in diseases of the urinary organs, and also in some other complaints. The dose, in substance, is from twenty to thirty grains.

## INFUSION OF BUCHU.

R. Buchu leaves one ounce  
 Boiling water one pint  
 Macerate for four hours, in a covered vessel, and strain. *U. S. Ph.*  
 The dose is from one to two fluid ounces.

## COMPOUND INFUSION OF BUCHU.

R. Buchu leaves  
 Urva ursi, each, half an ounce  
 Boiling water eight ounces  
 Digest for half an hour, strain, and add  
 Syrup of senega half a fl. ounce  
 One or two spoonfuls every two hours, in atony of the bladder, and mucous discharges. *Radins.*

## TINCTURE OF BUCHU.

R. Buchu leaves two ounces  
 Proof spirit one pint  
 Macerate for seven days, and filter. *Dub. Ph.*

Dose, from one to four fl. drachms.

## EXTRACT OF BUCHU.

R. Buchu, in coarse powder, a pound  
 Ether four fl. ounces  
 Alcohol twelve fl. ounces  
 Displace without maceration, add diluted alcohol until a pint of ethero-alcoholic tincture is obtained; suffer this to evaporate spontaneously; treat the residuc in the displacer, with diluted alcohol, till two pints are obtained; evaporate to a syrup; add the product of the first tincture, and with a gentle heat concentrate to the proper consistence. *W. Procter.*

## FLUID EXTRACT OF BUCHU.

R. Buchu leaves eight ounces  
 Alcohol sixteen fl. ounces  
 Water sufficient  
 Reduce the leaves to a coarse powder, moisten them in a covered vessel, with twelve fl. ounces of the alcohol, macerate for six hours, and introduce into a displacer. When the clear fluid has ceased to pass, add the remaining alcohol, mixed with four fl. ounces of water, until the displaced liquid amounts to twelve fl. ounces, which is to be set aside until reduced to six fl. ounces by spontaneous evaporation. The residue in the displacer is then to be treated with a pint of cold water by maceration for twelve hours, and subjected to pressure till a pint is obtained. Evaporate this to ten fl. ounces, mix with six fl. ounces of the tincture, agitate for several days, filter, or strain. Dose, one to two teaspoonfuls. *W. Procter.*

## DIOSPYROS.

## PERSIMMON.

The Persimmon, or *Diospyros Virginiana*, is a native tree, found in the middle and southern States, most frequent in the latter.

*Sex. Syst.* Diœc. octand. *Nat. Syst.* Ebenacœe. Linn. Sp. Pl. 1510. Griffith, Med. Bot. 435.

Several parts of the Persimmon have been used in medicine, as the bark and the unripe fruit. They are both powerful astringents, and have been employed with success in bowel complaints and hemorrhages. The bark may be given in infusion, the fruit, in syrup or vinous tincture.

## INFUSION OF PERSIMMON BARK.

R. Persimmon bark,  
bruised, half an ounce  
Boiling water one pint  
Macerate for two hours, and strain.

Used in doses of a fl. ounce, in intermittents, and as a gargle in ulcerated sore throat.

## WINE OF PERSIMMONS.

R. Crushed green persimmons one pound  
Port wine one pint and a-half  
Macerate for fourteen days, strain, and filter. Dose, two to four fl. drachms a day, as an astringent. *Beasley.*

## DIRCA.

## LEATHERWOOD.

The *Dirca palustris* is an indigenous shrub, found in boggy situations, with long, tough roots.

*Sex. Syst.* Octand. monog. *Nat. Syst.* Thymelacœe.

Linn. Amœn. iii. 12. Griffith, Med. Bot. 561.

The part used is the bark, which is very fibrous; it causes redness and vesication, when applied to the skin; when chewed, it induces salivation. It has been given in infusion, or decoction, as a sudorific, and expectorant, and also in the same class of diseases as mezercon.

## DRACONTIUM.

## SKUNK CABBAGE.

A perennial plant, with very large leaves, indigenous to the United States, growing in wet situations: it is the *Symplocarpus foetidus*.

*Sex. Syst.* Tetrand. monog. *Nat. Syst.* Orontiacœe.

Linn. Sp. Pl. 1372 (Dracontium). Griffith, Med. Bot. 619.

The root is officinal, but the seeds are equally powerful. They both have a very acrid taste when fresh. The leaves, when bruised, have a nauseous smell, and are a good stimulating application to blisters. The root and seeds are stimulant, antispasmodic, and narcotic; and have been employed with success in asthma, hysteria, &c. The dose in powder is from two to twenty grains, several times a-day.

## INFUSION OF SKUNK CABBAGE.

R. Skunk cabbage root one ounce  
Boiling water one pint

Infuse in a covered vessel for an hour, and strain. Dose, an ounce to two ounces.

## TINCTURE OF SKUNK CABBAGE ROOT.

R. Skunk cabbage root, sliced, one ounce  
Alcohol six fl. ounces  
Macerate for fourteen days, and strain.

*Turner.*

## TINCTURE OF SKUNK CABBAGE SEED.

R. Skunk cabbage seed two drachms  
Alcohol four fl. ounces  
Macerate for fourteen days, and strain.

*Turner.*

## DULCAMARA.

## BITTERSWEET.

The Bittersweet, or *Solanum dulcamara*, is a climbing shrub, indigenous to Europe, and naturalized extensively in this country.

*Sex. Syst.* Pentand. monog. *Nat. Syst.* solanaceæ.

Linn. Sp. Pl. 264. Griffith, Med. Bot. 480.

The officinal portions are the small stems. These have a heavy, unpleasant odor when fresh, but are scentless when dry. They have a somewhat bitter taste, followed by a peculiar sweetness. The properties of Bittersweet are those of a narcotic, diuretic, and diaphoretic. It has been used in chronic rheumatism, asthma, &c., and especially in chronic cutaneous disorders. The dose, in substance, is from thirty grains to a drachm, but it is seldom given in this form.

## DECOCTION OF BITTERSWEET.

R. Bittersweet, bruised, one ounce  
Water one pint and a-half  
Boil down to a pint, and strain.

*U. S. Ph.*

Dose, from one to two fl. ounces, three or four times a-day, gradually increased, till a pint is taken in the twenty-four hours. In chronic eruptions, &c.

## COMPOUND DECOCTION OF BITTERSWEET.

R. Bittersweet half an ounce  
Liquorice root  
Burdock  
Sassafras bark  
Guaicum, each, two drachms  
Water two pints

Boil down to sixteen ounces, and strain. Dose, one to two fl. ounces, several times a-day, in chronic rheumatism, and venereal affections. *Augustin.*

## EXTRACT OF BITTERSWEET.

R. Bittersweet, in coarse  
powder, one pound  
Water sufficient  
Mix the powder with a pint of the water,



let it stand for twenty-four hours, put it in a displacement apparatus, and add water gradually, till the liquor that passes is but slightly impregnated with the properties of the bittersweet. Heat the filtered fluid, strain, and evaporate to proper consistence.

*U. S. Ph.*

Dose, from five to ten grains.

R. Freshly dried bittersweet,  
contused, eight ounces  
Diluted alcohol four pints  
Digest by a gentle heat, for fourteen days, express, filter, and evaporate on water-bath, to a proper consistence. Dose, five to eight grains.

*J. W. Simes.*

#### SYRUP OF BITTERSWEET.

R. Coarsely powdered bitter-sweet four ounces  
Water twelve fl. ounces  
Alcohol four fl. ounces  
Mix the fluids, pour on the powder in a displacer, until one pound of tincture is obtained, adding water to displace the diluted alcohol. Evaporate to half a pint, add fifteen ounces of sugar, and make a syrup.

*W. Procter.*

#### PILLS OF EXTRACT OF BITTERSWEET.

R. Extract of bittersweet one ounce  
Crude antimony  
Powder of bittersweet, each, half an ounce  
Mix, and form pills of two grains each.  
Dose, from fifteen to twenty, twice a-day, in obstinate cutaneous affections.

*Radius.*

#### MIXTURE OF BITTERSWEET.

R. Extract of bittersweet three drachms  
seneka two drachms  
hemlock one drachm  
Antimonial wine  
Cinnamon water, each, one ounce  
Mix. Forty to eighty drops, four times a-day, in scrofulous swelling, spasmodic cough, &c.  
R. Extract of bittersweet half a scruple  
Infusion of liquorice  
Decoction of mallows, each, one ounce and a-half  
Wine of opium two drops  
Oxymel three drachms  
Mix. A teaspoonful, in chronic catarrh in children.

*Radius.*

## E

### ELATERIUM.

#### ELATERIUM

Is a peculiar substance deposited by the juice of the fruit of *Ecbolium elaterium*, a native of the south of Europe, growing in waste places.

*Sex. Syst.* Monœc. monad. *Nat. Syst.* Cucurbitaceæ.

Richard. Griffith, Med. Bot. 305.

Elaterium is in light, friable, thin, somewhat curled flakes or fragments, of a pale, grayish-green color. The taste is acrid, and bitterish; but the odor is very slight. The dose is from one to two grains, of the common commercial kind, of the pure and genuine, not more than one-eighth to a quarter of a grain.

#### ELATERIUM PILLS.

R. Elaterium ten grains  
Extract of gentian three drachms  
Mix, and form pills of four grains each.  
One or two, twice a-day, as a hydragogue purgative.  
R. Elaterium six grains  
Extract of gentian  
Soap, each, nine grains

*Saunders.*

Mix, and form twelve pills. One to four in obstinate constipation.

*Radius.*

R. Elaterium half a drachm  
Aloes  
Gamboge, each, two drachms  
Gum ammoniac two ounces  
Tincture of wormwood sufficient  
Mix, and form pills of four grains each.

*Swed. Ph.*

R. Elaterium fifteen grains  
Sulphate of potassa one scruple  
Soap one drachm  
Powdered ginger one drachm and a-half  
Rub the elaterium and sulphate of potassa together, and then with the ginger and soap, adding sufficient water to form mass, and form sixty pills. One to two every hour, until full evacuations are procured.

*Sprague.*

#### ELATERIUM MIXTURE.

R. Elaterium one grain  
Spirit of nitric ether two fl. ounces



Tincture of squills

Oxymel of colchicum, each, half a fl. ounce

Syrup one fl. ounce

Mix. A teaspoonful, three or four times a-day, in a little water. In ascites, or hydrothorax. *Ferriar.*

R. Elaterium one grain

Parsley water six fl. ounces

Oxymel of squills

Syrup of buckthorn, each, half fl. ounce

Root of juniper one ounce

Aromatic tincture one drachm

Spirit of nitric ether two fl. drachms

Mix. Used as above, and in the same cases. *Hufeland.*

## OIL OF ELATERIUM.

R. Fruit of elaterium one part

Oil of olives two parts

Digest in a water-bath, for some days, then evaporate all moisture, and strain. As an application for sore nipples, frosted limbs, and painful hemorrhoids. *Lond. Ph.*

## ELATERINA.

## ELATERIN.

R. Juice of ecballium at will  
Treat with water, dissolve the insoluble residue in alcohol, evaporate to consistence of syrup, purify the crystals that form, by washing with ether.

## TINCTURE OF ELATERIN.

R. Elaterin one grain

Alcohol one ounce

Nitric acid four drops

Mix. Dose, twenty to forty drops, in cinnamon water. *Morris.*

## ELEMI.

## ELEMI.

Elemi is a resinous exudation of various species of plants, principally belonging to the natural order of Amyridaceæ. It occurs in masses of various consistence and color, but usually diaphanous; it has a terebinthinate and somewhat aromatic odor, and a warm, unpleasant taste. It has the usual properties of the turpentine, but is only employed as an external application. It is seldom used in this country, but is extensively employed in Europe.

## OINTMENT OF ELEMI.

R. Elemi one pound

Common turpentine ten ounces

Suet two pounds

Olive oil two fl. ounces

Melt the elemi with the suet; remove from fire, and add turpentine and oil, and strain. *Lond. Ph.*

As a gentle stimulant to flabby ulcers, &c.

R. Elemi

Venice turpentine, each,  
one ounce and a-half

Suet two ounces

Balsam tolu one ounce

Melt together, and strain. As a dressing to indolent and ill-conditioned ulcers. *Neimann.*

## ELEMI CAUTERY PLASTER.

R. Elemi

Spermaceti, each, five parts

Turpentine six parts

White wax ten parts

Melt together, and spread on paper. To keep up discharge from issues. *Soubciran.*

## EMETINA.

## EMETINE.

This is a peculiar alkaloid, found in the various kinds of ipecacuanha, and to which they owe their active properties. There are two varieties, the colored or impure, and the white or pure.

## IMPURE EMETINE.

R. Ipecacuanha one part  
Alcohol (.835) four parts

Macerate for some days, express, and filter; treat the residue with three parts of alcohol as above, unite the tinctures, distil, dissolve the residue in four parts of cold water, filter, evaporate to the consistence of honey, and finish the drying by a gentle heat. *Cottureau.*

It is reddish brown, inodorous, bitter, and deliquescent.

## PURE EMETINE.

R. Impure emetine at will  
Dissolve in water, treat with magnesia, wash with cold water, treat several times with alcohol, on a water-bath, evaporate the solution to dryness, dissolve the residues in very dilute sulphuric or acetic acid, boil with a little animal charcoal, add an alkaline solution to saturate the acid, dry the precipitate, dissolve it in alcohol, and evaporate to dryness. *Cottureau.*

It is yellowish or white, pulverulent, not deliquescent. Dose, 1-16th to 1-4th of a grain.

## EMETINE MIXTURE.

R. Impure emetine four grains

Infusion of orange leaves two fl. ounces

Syrup of orange flowers half a fl. ounce

Mix. A dessertspoonful every half hour, to produce vomiting. *Magendie.*

R. Pure emetine, dissolved in  
Nitric acid one grain  
Infusion of linden three fl. ounces  
Syrup of mallows one fl. ounce

Mix. Given as the last. *Foy.*

#### EMETINE LOZENGES.

R. Impure emetine thirty-two grains  
Sugar two ounces  
Mucilage of tragacanth sufficient  
Rub together, and form lozenges of eight-  
een grains. One will usually vomit a child,  
and three or four an adult. *Magendie.*

R. Impure emetine thirty-two grains  
Sugar four ounces  
Mucilage tragacanth sufficient  
Mix, and form lozenges of nine grains  
each. One occasionally as an expectorant.  
*Guibourt.*

#### SYRUP OF EMETINE.

R. Impure emetine sixteen grains  
Dissolve in a little water, filter, and add to  
Syrup one pound  
R. Pure emetine four grains  
Syrup one pound  
Mix. The dose of these syrups is a tea-  
spoonful. *Soubeiran.*

### ERGOTA.

#### ERGOT.

Ergot is the diseased seeds of the common rye, but the cause of this morbid growth has given rise to much controversy. The most general opinion, now is, that it is owing to a fungus, but authors are not agreed as to the character of this. The most recent investigator, Mr. Queckett, calls it *Ergotetia arborifaciens*. It is also a question whether the peculiar properties of ergot depend on the fungus, or on the morbid grain. Ergot is one of the few articles that act specifically on the uterus, increasing its contractile energy; and its principal use is as a stimulant to uterine action in labor, and also to check hemorrhage from that organ, but it has been employed in a variety of other diseases, and especially externally as a styptic. The dose, in substance, to aid labor, is from fifteen to twenty grains, to be repeated every twenty minutes, till the desired effect is produced, or till a drachm is taken.

#### INFUSION OF ERGOT.

R. Ergot one drachm  
Boiling water four fl. ounces  
Infuse. One-third as a dose, to be repeated every twenty minutes. *Wood.*

R. Ergot half a drachm  
Boiling water one fl. ounce and a-half  
Infuse for half an hour, and strain. To be repeated every four hours. *Ramsbotham.*

#### DECOCTION OF ERGOT.

R. Ergot one ounce  
Water two pints and a-half  
Boil to two pints, and strain. A table-  
spoonful every quarter of an hour.

#### WINE OF ERGOT.

R. Bruised ergot two ounces  
Sherry wine one pint  
Macerate for fourteen days, express, and filter. *U. S. Ph.*

Dose, in labor, two to three fl. drachms; for other purposes, one to two fl. drachms.

#### SYRUP OF ERGOT.

R. Ergot one ounce and a-half  
White wine two ounces  
Macerate for eight days, express, and filter; treat the residue three times with water, mix together all the decoctions, and add  
Sugar one pound

Evaporate to consistence of syrup, and add the vinous tincture. Dose, one to two fl. ounces. *Foy.*

R. Ergot twenty grains  
Extract of opium three-quarters of a grain  
Syrup eight fl. ounces

Mix. Dose, one fl. ounce occasionally in engorgements of the uterus. *Lisfranc.*

#### TINCTURE OF ERGOT.

R. Ergot two ounces and a-half  
Diluted alcohol one pint  
Macerate for fourteen days, and strain. Dose, twenty drops to a fl. drachm. As a sedative. *Guy's Hospital.*

#### COMPOUND POWDER OF ERGOT.

R. Powdered ergot two scruples  
cubeb one ounce  
cinnamon half a drachm  
sugar one drachm

Mix, and divide into eight powders; one to be taken, three or four times a-day, in leucorrhœa or gleet. *Ryan.*

R. Powdered ergot half a drachm  
Aromatic powder half a scruple  
Sugar half a drachm

Mix, and divide into ten powders. One to be given every hour to three hours, in hemorrhages. *Ryan.*

#### ERGOT MIXTURE.

R. Powdered ergot half a drachm  
Syrup half a fl. ounce  
Mint water one fl. ounce

Mix. One-third to be taken at a dose, and repeated every twenty minutes; to aid labor. *Soubeiran.*

R. Powdered ergot                      one drachm  
 Syrup                                      three fl. ounces  
 Tincture of opium                      twenty drops  
 Essence of bergamot                      six drops  
 Mix. A spoonful, to be repeated as may be required. *Pierquin.*

## ERGOT CLYSTER.

R. Powdered ergot                      one to three drachms  
 Water                                      twelve ounces  
 Boil for ten minutes, and strain. As an enema, to aid labor. *Foy.*

## COMPOUND ERGOT PILLS.

R. Powdered ergot                      half a drachm  
 Extract of gentian                      one drachm  
 Rub together, and make fifteen pills. In dysmenorrhœa. One pill to be taken three times a-day. *Dewees.*

## ERGOT INJECTION.

R. Powdered ergot                      half an ounce  
 Boiling water                              half a pint  
 Infuse, and strain. As an injection in erythema of the vagina and urethritis. *Desruelles.*

## EXTRACT OF ERGOT.

R. Powdered ergot                      at will  
 Water                                      sufficient  
 Exhaust the ergot by the process of displacement; heat the result on water-bath; filter, and evaporate to consistence of syrup, add alcohol to precipitate gummy principles, permit to rest, decant, and evaporate to consistence of soft extract. *Bonjean.*

Said to be very efficacious in hemorrhages, in doses of two grains every two hours; also applied as a styptic to bleeding vessels.

## EXTRACT OF ERGOT MIXTURE.

R. Extract of ergot                      fifteen grains  
 Syrup of orange flowers                      one fl. ounce  
 Water                                      three fl. ounces  
 Mix. A tablespoonful, every quarter of an hour, in uterine hemorrhage. Dose to be increased, if requisite. *Bonjean.*

## PILLS OF EXTRACT OF ERGOT.

R. Extract of ergot                      one drachm  
 Powdered liquorice root                      sufficient  
 Mix, and make fifty pills. Dose, six to ten, a-day.

## OIL OF ERGOT.

R. Powdered ergot                      at will  
 Sulphuric ether                              sufficient  
 Exhaust ergot by process of displacement; evaporate result by a gentle heat. *Wright.*

Dose, from twenty to fifty drops, in some appropriate vehicle, in parturition, &c. In doses of ten drops, every three hours, in diarrhœa, gastric irritability, &c.

## ERIGERON.

## 1. ERIGERON CANADENSE.

## CANADA FLEABANE.

A common native plant, with numerous white flowers, found in waste places, in the northern and middle States.

*Ser. Syst.* Syngen. super. *Nat. Syst.* Asteracæ. Willd. Sp. Pl. iii. 1954. Torrey & Gray; Fl. ii. 175.

The whole plant is used; it has a rather pleasant smell, and a bitterish, acrid, somewhat astringent taste. It is said to be diuretic, tonic, and astringent, and to be useful in dropsies and diarrhœa. Dose, in substance, thirty grains to a drachm.

## INFUSION OF CANADA FLEABANE.

R. Canada fleabane                      one ounce  
 Boiling water                              one pint  
 Infuse. Dose, two to four fl. ounces. *Dupuy.*

## EXTRACT OF CANADA FLEABANE.

R. Canada fleabane                      one pound  
 Water                                      one gallon  
 Boil down to four pints, filter, and evaporate to proper consistence. Dose, five to ten grains.

## 2. ERIGERON ANNUUM.

## FLEABANE.

This species, which has been also called, *E. heterophyllum*, is very closely allied to, and identical in properties with, *E. strigosum* (*E. Philadelphiaicum*). It is also a common plant in the United States.

Persoon, Synop. ii. 431. Griffith, Med. Bot. 394.

The whole plant is used. It has a peculiar, but not unpleasant odor, when bruised, and astringent, bitterish taste. It is much celebrated as a diuretic, especially in dysuria of children.

## INFUSION OF FLEABANE.

R. Fleabane                                      one ounce  
 Boiling water                              one pint  
 Infuse. Dose, two to four fl. ounces, every three or four hours. *Dewees.*

## ERYNGIUM.

## 1. ERYNGIUM MARITIMUM.

## SEA HOLLY.

This plant is a native of Europe, growing on sandy beaches.

*Ser. Syst.* Pentand. digyn. *Nat. Syst.* Apiacæ.

Linn. Sp. Pl. 337. Griffith, Med. Bot. 315.

It is thought to be diuretic, and was also esteemed aphrodisiac. The part used is the root, which has a sweet, agreeable taste, and an aromatic odor.



## 2. ERYNGIUM AQUATICUM.

## BUTTON SNAKE-ROOT.

A native species, growing in wet places, from Virginia to Florida.

Linn. Sp. Pl. ed. 2. p. 336. Torrey & Gray, Fl. 1. 604.

The root is bitter, aromatic, and pungent. It is diaphoretic and expectorant, and is useful in the same cases to which senega is appropriate. Used to some extent in South Carolina.

## EUPATORIUM.

## BONESET.

This, the *E. perfoliatum*, is a native plant, found in abundance in most parts of the United States, in moist situations. Several other native species are almost identical in their properties, as *E. leucrifolium*, *E. purpureum*, &c.

Sax. Syst. Syngen. æqual. Nat. Syst. Asteraceæ.

The parts used are the leaves and flowers. These have a faint odor, and a peculiar, bitter taste. It is tonic and diaphoretic, and, in large doses, emetic and laxative. Dose, in substance, as a tonic, is twenty to thirty grains.

## INFUSION OF BONESET.

R. Boneset one ounce  
Boiling water one pint  
Infuse for two hours, in a covered vessel, and strain. *U. S. Ph.*

As a diaphoretic, to be taken freely, warm; as a tonic, a fl. ounce, cold.

## DECOCTION OF BONESET.

R. Boneset one ounce  
Water one pint and a-half  
Boil down to a pint.

Dose, a wineglassful, or more, as an emetic and cathartic.

## COMPOUND INFUSION OF BONESET.

R. Boneset  
Sage, each, half an ounce  
Cascarella one drachm  
Boiling water one pint and a-half  
Infuse till cold, and strain. A wineglassful, every three or four hours. In hectic fever. *Ellis.*

## EUPHORBIA.

## SPURGE.

## 1. EUPHORBIA COROLLATA.

## BOWMAN'S ROOT.

A native plant, with numerous white flowers, found in many parts of the United States, in dry, sandy soil.

Sax. Syst. Dodecand. trigyn. Nat. Syst. Euphorbiaceæ.

Linn. Sp. Pl. 258. Griffith, Med. Bot. 592.

The root, which is the part used, is large, white, inodorous, and almost tasteless. It is a safe and certain emetic, in doses of fifteen or twenty grains, and diaphoretic in that of three or four.

## 2. EUPHORBIA IPECACUANHA.

## WILD IPECACUANHA.

Also a native plant, with numerous procumbent stems, and variously shaped leaves.

Linn. Sp. Pl. 653. Griffith, Med. Bot. 592.

The root, the part used, is large, white, almost inodorous, and a somewhat sweet taste. It is an energetic emetic, but, like the last species, apt to act on the bowels. Dose, ten to fifteen grains.

## COMPOUND POWDER OF WILD IPECACUANHA.

R. Powdered wild ipecacuanha  
opium, each, six grains  
Sulphate of potassa forty-eight grains  
Triturate well, and divide into six powders. As a substitute for Dover's powder, to which it is equal, if not superior. *W. P. C. Barton.*

## 3. EUPHORBIA HYPERICIFOLIA.

## BLACK PURSLANE.

A small, procumbent, native plant, with leaves often marked with a purple spot.

Linn. Sp. Pl. 652. Griffith, Med. Bot. 593.

The whole plant is used, and is said to be astringent and narcotic. It is inodorous, but has a sweetish, somewhat austere taste. It has been recommended in diarrhœa, fluor albus, &c.

## INFUSION OF BLACK PURSLANE.

R. Dried black purslane half an ounce  
Boiling water one pint  
Infuse for half an hour, and strain. Dose, in dysentery and diarrhœa, a tablespoonful, every hour, till the morbid symptoms yield, then less frequently; in menorrhagia and leucorrhœa, a wineglassful, three times a-day. *Zollickoffer.*

## 4. EUPHORBIA LATHYRIS.

## MOLE PLANT.

A tall species, native of Europe, but often cultivated in this country.

Linn. Sp. Pl. 655. Lindley, Flor. Med. 194.

The seeds, which are the officinal portion, afford a purgative oil, which is tasteless, and almost inodorous. It acts on the bowels, in doses of from four to twelve drops, but is apt to cause nausea and vomiting.



## MIXTURE OF OIL OF MOLE PLANT.

- R. Oil of mole plant            eight drops  
 Powdered gum Arabic        one drachm  
 Sugar                            two ounces  
 Distilled water                three fl. ounces

Mix. As a purgative draught. *Pichonnier.*

## EUPHORBIIUM.

## EUPHORBIIUM

Is the concrete resinous juice obtained from several succulent species of euphorbia, principally natives of Africa. It is in the form of tears, or small, irregular masses, of a yellowish, or reddish color. The taste is at first slight, but soon becomes acrid and burning; the odor is very faint. It is a violent emetic and purgative, and is not used internally; as an external application it is employed in Europe, and also as a sternutatory.

## STERNUTATORY OF EUPHORBIIUM.

- R. Powdered euphorbium        one drachm  
       white hellebore four scruples
- Mix. Very violent in its action. *Pierquin.*

## OIL OF EUPHORBIIUM.

- R. Euphorbium                        one part  
       Olive oil                        ten parts
- Digest for ten days, and filter. As a friction in paralysis. *Van Mons.*

## PLASTER OF EUPHORBIIUM.

- R. Pitch  
 Yellow wax, each,                three ounces  
 Turpentine                        one ounce
- Melt together, and add  
 Gum ammoniac  
 Olibanum  
 Mastich  
 Calamine, each,                one ounce  
 Euphorbium  
 Pyrethrum  
 Common salt, each,            two ounces
- Stir, till cold. A stimulating and rube-facient application, known as *capuchin* ointment. *Wirttemberg Ph.*

## EUPHRASIA.

## EYEBRIGHT.

The *Euphrasia officinalis* is a small, annual plant, a native of Europe, and the northern parts of Asia and America.

*Sex. Syst.* Didynam. gymnos. *Nat. Syst.* Scrophulariaceæ.

Linn. Sp. Pl. 841. Lindley, Flor. Med. 506.

The whole plant is used. It is slightly bitter and aromatic, and, at one time, was much used in diseases of the eyes. Dr. Kranichfeld says it is peculiarly beneficial in catarrhal ophthalmia, and also in cough and other catarrhal affections.

## F

## FERRUM.

## IRON.

A solid, hard, malleable, ductile metal, of a silvery white color, and fibrous texture, attracted by the magnet, of a slight styptic taste, and a faint, but peculiar odor, when rubbed. Oxidizable in the air, and when heated to whiteness, burning with great brilliancy. It is employed medicinally in a great number of forms, both in the metallic form, in those of oxides and salts. All these are powerfully tonic and astringent.

## FERRI FILUM.

## IRON WIRE.

## FERRI RAMENTA.

## IRON FILINGS.

These should always be perfectly pure, when

used internally, and in a state of minute division.

## PREPARED METALLIC IRON.

- R. Iron filings                        at will
- Pound in an iron mortar, with great force, sift through a fine sieve, and porphyryze, until all metallic brilliancy has disappeared, and again sift. Keep in a perfectly dry place. *Paris Cod.*

Dose, from five to twenty grains.

R. Spread oxide of iron in a tube, heat the tube, and cause a stream of hydrogen gas to pass through it, till the iron is reduced. *Soubiran.*

R. Place precipitated carbonate of iron on layers of iron gauze, in a tube of wrought iron, pass a stream of hydrogen through it, heat to a dull red, and maintain this for some hours, keeping up a small current of gas, till cool. *W. Procter.*

## POWDER OF METALLIC IRON.

R. Prepared metallie iron      ten grains  
 Sugar      one drachm  
 Mix. To be given, four times a-day, in  
 chlorosis and amenorrhœa. *Brera.*

## COMPOUND POWDER OF METALLIC IRON.

R. Prepared metallie iron  
 Powdered guaiacum, each,      half a drachm  
 Prepared oyster shell      half an ounce  
 Sugar      three drachms  
 Mix. Divide into ten powders; one, twice  
 a-day, in serofula. *Gælis.*

R. Prepared metallie iron  
 Powdered cinnamon, each,      half a drachm  
 Sugar,      three drachms  
 Mix, and divide into twelve powders.  
 One every three hours, as a tonic.

*Guibourt.*

R. Prepared metallie iron      one grain  
 Carbonate of magnesia      five grains  
 Powdered cinnamon      two grains  
 sugar      one scruple

Mix. One-half in the morning, the other  
 in the evening, in rachitis. *Hufeland.*

R. Prepared metallie iron  
 Powdered anise  
 Castor, each,      two drachms  
 Powdered cinnamon  
 nutmeg, each,      one drachm

Mix, and divide into twenty-four powders.  
 One, morning and evening, in chlorosis.

*St. Marie.*

## BOLUS OF PREPARED IRON.

R. Prepared metallie iron  
 Powdered myrrh, each,      ten grains  
 Aromatic powder      two grains  
 Powder of rosemary      half a drachm  
 Syrup of orange peel      sufficient  
 Make a bolus. To be taken morning and  
 evening, in amenorrhœa. *Augustin.*

## PILLS OF PREPARED IRON.

R. Prepared metallie iron      two ounces  
 Extract of wormwood,      sufficient  
 Mix, and make six-grain pills. Three or  
 four, morning and evening, in chlorosis,  
 dyspepsia, &c. *Soubiran.*

R. Prepared metallie iron      one drachm  
 Powdered black hellebore      one scruple  
 Extract of gentian      two drachms  
 Syrup of saffron      sufficient  
 Mix, and form sixty pills. Two, three  
 times a-day, as an emmenagogue.

*St. Marie.*

R. Prepared metallie iron      half an ounce

Powdered columbo      four scruples  
 rhubarb  
 cinnamon, each,      two scruples

Extract of quassia      sufficient  
 Mix, and form pills of three grains each.  
 Three to four a-day, as a tonic in debility.  
*Juhn.*

## AROMATIC MIXTURE OF IRON.

R. Powdered Peruvian bark      one ounce  
 Sliced columbo      three drachms  
 Bruised cloves      two drachms  
 Iron filings      half an ounce  
 Digest for three days in a covered vessel,  
 and add as much peppermint water as  
 will yield a mixture of twelve ounces,  
 after filtration, then add compound tincture  
 of cardamom, three ounces, and tincture  
 of orange peel, three drachms.

*Dub. Ph.*

As a tonic, in doses of one or two fl. ounces.

## FERRI ACETAS.

## ACETATE OF IRON.

R. Subearbonate of iron      one part  
 Acetic acid      six parts  
 Digest for three days, and filter.

*Dub. Ph.*

Dose, from ten to twenty-five drops, in water.

## TINCTURE OF ACETATE OF IRON.

R. Acetate of potassa      two parts  
 Sulphate of iron      one part  
 Rectified spirit      twenty-six parts  
 Rub the acetate and sulphate together,  
 dry by a moderate heat, and triturate with  
 spirit. Digest in a closed bottle for seven  
 days, and decant. *Dub. Ph.*

Dose, from thirty drops to a teaspoonful, in  
 some convenient vehicle.

## ALCOHOLIC TINCTURE OF ACETATE OF IRON.

R. Liquid acetate of iron      one part  
 Diluted alcohol      seven parts  
 Digest for two days, and filter. Dose, ten  
 to fifty drops. *Guibourt.*

## ETHEREAL TINCTURE OF ACETATE OF IRON.

R. Liquid acetate of iron      nine ounces  
 Acetic ether      one ounce  
 Alcohol      two ounces  
 Mix. Dose, twenty to thirty drops.  
*Spielmann.*

## ACETATE OF IRON AND ALUM.

R. Sulphate of iron      two parts  
 Alum      one part

Boiling water ten parts  
Filter the solution, and gradually add solution of subacetate of lead till precipitation ceases; let rest, and filter; evaporate to consistence of a jelly. As a marking ink; it resists alkalies, but not acids.

*Guibourt.*

## FERRUM AMMONIATUM.

### AMMONIATED IRON.

R. Subearbonate of iron three ounces  
Muriatic acid ten fl. ounces  
Muriate of ammonia two pounds and a-half  
Distilled water four pints  
Mix the subearbonate with the acid, in a glass vessel, and digest for two hours, then add the muriate of ammonia, previously dissolved in the water, filter, and evaporate to dryness. *U. S. Ph.*

Said to be useful in amenorrhœa, scrofula, epilepsy, &c. Dose, four to twelve grains, several times a-day.

### COMPOUND POWDER OF AMMONIATED IRON.

R. Ammoniated iron  
Powdered quassia, each, two drachms  
Powdered chamomile half an ounce  
Mix, and divide into twenty-four powders. One, four times a-day, as a febrifuge. *Wurtzburg Ph.*

R. Ammoniated iron five grains  
Gum ammoniac three grains  
Powdered senega five grains  
liquorice one drachm  
Mix, and divide into twelve powders. One, every three hours, in gonorrhœa. *Foy.*

### BOLUS OF AMMONIATED IRON.

R. Ammoniated iron five grains  
Aromatic powder twelve grains  
Mucilage sufficient  
Mix, and make bolus. One to be taken twice a-day, in chlorosis and serofula. *Ainslie.*

### PILLS OF AMMONIATED IRON.

R. Ammoniated iron  
Galbanum, each, one drachm  
Assafetida two drachms  
Castor one scruple  
Tincture of valerian sufficient  
Beat into mass, and form pills of three grains. Two, morning and evening, in atonic nervous disorders. *Radius.*

R. Ammoniated iron  
Aromatic powder

Extract of Peruvian bark  
Alum, each, half a drachm  
Oil of cinnamon twelve drops  
Beat into mass, and form pills of two grains. Five to ten, morning and evening, in asthenic menorrhagia. *Formey.*

### MIXTURE OF AMMONIATED IRON.

R. Powdered galanga  
rhubarb, each, half a drachm  
Boiling water sufficient  
to obtain three ounces of strained solution, add  
Ammoniated iron six grains  
Peppermint sugar four grains  
Mix. A dessertspoonful, every three hours, in indigestion and chronic diarrhœa of children. *Wendt.*

### TINCTURE OF AMMONIATED IRON.

R. Ammoniated iron four ounces  
Proof spirit one pint  
Dissolve, and filter. Dose, forty to sixty drops. *Lond. Ph.*

## FERRI ARSENIAS.

### ARSENATE OF IRON.

R. Solution of sulphate of iron at will  
Add gradually a solution of arseniate of potassa, collect, and wash the precipitate.

### PILLS OF ARSENATE OF IRON.

R. Arseniate of iron three grains  
Extract of hops two drachms  
Powdered mallows half a drachm  
Syrup sufficient  
Beat together, and form forty-eight pills. One or two to be given, daily, in serofulous, herpetic, and cancerous affections. *Bielt.*

### OINTMENT OF ARSENATE OF IRON.

R. Arseniate of iron half a drachm  
Phosphate of iron two drachms  
Spermaceti ecrate six drachms  
Triturate together. As an application to cancerous ulcers. To be used with great caution. *Carmichael.*

## FERRI BROMIDUM.

### BROMIDE OF IRON.

R. Bromine one part  
Distilled water twenty parts  
Iron filings sufficient  
Boil on a sand-bath; when the solution becomes greenish, filter, and evaporate to dryness. *Mayendie.*

### PILLS OF BROMIDE OF IRON.

R. Bromide of iron twelve grains



Conserve of roses      eighteen grains  
Gum Arabic      twelve grains  
Mix, and form twenty pills. Two, in the morning and evening, as a tonic and alterative.

*Magendie.*

R. Bromide of iron      one drachm  
Extract of liquorice      sufficient  
Mix, and make sixty pills. One or two, in the morning and evening, in scrofula, &c.

*Radius.*

#### OINTMENT OF BROMIDE OF IRON.

R. Bromide of iron      one drachm  
Bromine      twelve grains  
Lard      one ounce  
Mix. In frictions on the inside of the thighs, in amenorrhœa.

*Cadet.*

### FERRI CARBONAS.

#### CARBONATE OF IRON.

From the avidity with which carbonate of iron absorbs oxygen from the air and loses its carbonic acid, it is a very unstable preparation, and therefore what is usually prescribed under this name is merely a subcarbonate, or sesquioxide; by combination with saccharine matter; it, however, is protected from the oxidizing process, to a very great extent.

#### SACCHARINE CARBONATE OF IRON.

R. Sulphate of iron      four ounces  
Carbonate of soda      five ounces  
Pure sugar      two ounces  
Water      four pints

Dissolve the sulphate and carbonate, each in half the water, add the solutions together, collect the precipitate, divest it of as much water as possible, and immediately triturate it with the sugar. Dry it at a low temperature.

*Ed. Ph.*

Dose, from five to thirty grains.

#### PILLS OF CARBONATE OF IRON.

R. Sulphate of iron      four ounces  
Carbonate of soda      five ounces  
Clarified honey      two ounces and a-half  
Syrup

Boiling water, each,      sufficient  
Dissolve the sulphate and carbonate, each in a pint of water, adding to each solution one fl. ounce of syrup; mix the two solutions in a bottle just large enough to hold the mixture, close accurately with a stopper, and set by to let the carbonate of iron subside; decant, wash, precipitate with water sweetened with syrup, until the washings cease to be saline, express, in flannel, as much of the water as possible, and mix with the honey. Heat over a

water-bath, to proper consistence. This is known as Vallet's carbonate of iron. Dose, from ten to thirty grains, in the course of the day, where iron is indicated. *U. S. Ph.*

#### SUBCARBONATE OF IRON.

R. Sulphate of iron      eight ounces  
Carbonate of soda      nine ounces  
Boiling water      one gallon  
Dissolve the sulphate and carbonate, each in four pints of the water, mix the solutions, stir, set by for powder to subside, decant, wash the precipitate with hot water, wrap in bibulous paper, and dry with gentle heat.

*U. S. Ph.*

Dose, five to thirty grains, or even more, several times a-day.

#### POWDER OF SUBCARBONATE OF IRON.

R. Subcarbonate of iron      one drachm  
Divide into six powders. One every six hours, in syrup. In chorea, neuralgia, &c.

*Ellis.*

#### MIXTURE OF SUBCARBONATE OF IRON.

R. Powdered myrrh      one drachm  
Sulphate of iron      one scruple  
Carbonate of potassa      one drachm  
Sugar      two drachms  
Water      six fl. ounces

Mix. Dose, a tablespoonful, according to circumstances.

*Ellis.*

R. Myrrh      one drachm  
Carbonate of potassa      twenty-five grains  
Rose-water      seven fl. ounces and a-half  
Powdered sulphate of iron      one scruple  
Spirit of lavender      half a fl. ounce  
White sugar      one drachm

Rub the myrrh with the rose water, gradually added, mix with the spirit of lavender sugar and carbonate of potassa, and, lastly, the iron; pour into a well-stopped bottle, and keep closed.

*U. S. Ph.*

These are well known under the name of Griffith's antihætic mixture. Dose, one or two fl. ounces, two or three times a-day, in chlorosis, debility of the gastric organs, &c.

R. Subcarbonate of iron  
Carbonate of potassa, each,      four ounces  
Black hellebore      two ounces  
Water      sufficient

Boil, after macerating for some days, stirring from time to time; then let settle, decant, and evaporate to consistence of an extract, and add to this

Spirit of scurvy  
grass      three times its weight  
And filter. Forty to sixty drops, in hypochondria, melancholia, &c. *Palat. Ph.*



### IRON PLASTER.

R. Subcarbonate of iron	three ounces
Lead plaster	two pounds
Burgundy pitch	half a pound
Add the subcarbonate to the other ingredients previously melted together, and stir till cold.	
	<i>U. S. Ph.</i>

As a strengthening plaster, in pains, and want of power in the muscles.

FERRI CARBURETUM.

### CARBURET OF IRON.

This article, well known as Plumbago, or Black Lead, has been highly recommended, of late years, in cutaneous affections, and is recognized as officinal by many of the pharmacopœias of continental Europe.

Neuman.

### PREPARED CARBURET OF IRON.

R. Pulverized carburet of iron one pound  
Boil in water for an hour, decant, and digest in eight ounces of water, mixed with two ounces of nitric and muriatic acids; digest for twenty-four hours, decant, and wash well with water, and dry. Dose, from five to fifteen grains, two or three times a-day. *Pruss. Ph.*

Dose, two to six pills, three times a-day.

POWDER OF CARBURET OF IRON.

R. Powdered carburet of iron  
Sugar, each, half a drachm  
Mix, and divide into six powders. One  
to be taken every hour, in lepra and  
lichen. *Radiis.*

### PILLS OF CARBURET OF IRON.

R. Powdered carburet of iron  
 Extract of bittersweet, each, one drachm  
 Calomel twelve grains  
 Golden sulphuret of  
     antimony six grains  
 Extract of liquorice sufficient  
 Mix, and form sixty pills. Dose, five,  
 three times a-day. *Niemann.*

### ELECTUARY OF CARBURET OF IRON.

R. Powdered carburet of iron  
Flowers of sulphur  
Crude antimony, each, half an ounce  
Black oxide of mercury one scruple  
Wild violet  
Extract of pulsatilla

	bittersweet, each,
	two drachms
Camphor	one drachm

Syrup of orange peel      sufficient  
Mix. To be used in eight days, in tea-  
spoonful doses.      *Phœbus.*

## MIXTURE OF CARBURET OF IRON.

R. Powdered carburet of iron  
Flowers in sulphur, each, one drachm  
Triturate together, and add  
Barley water one pint  
To be taken in four doses. In psora, &c.  
*Brera.*

## OINTMENT OF CARBURET OF IRON.

R. Powdered carburet  
of iron, half an ounce  
Flowers of zine one drachm  
Lard one ounce  
Triturate together. As an application in  
herpetic affections. *Brera.*

R. Powdered carburet of iron, one ounce  
Flowers of sulphur four scruples  
Rose ointment six ounces  
Mix. *Taddei.*

## PLASTER OF CARBURET OF IRON.

R. Powdered carburet of iron one part  
Soap plaster four parts  
Triturate together. *Giordano.*

## FERRI CHLORIDUM.

## CHLORIDE OF IRON.

R. Subcarbonate of iron at will  
Muriatic acid sufficient  
to dissolve the carbonate, evaporate to dry-  
ness, by a water-bath. *Cottercau.*

R. Peroxide of iron five ounces  
Muriatic acid nineteen fl. ounces  
Boil for ten minutes, then evaporate to  
fifteen ounces, filter. Place under a bell-  
glass, with a vessel containing caustic po-  
tassa; in a few days mammillary granules  
will form; separate these, and preserve in  
a glass-stoppered bottle. *Beral.*

CHLORIDE OF IRON AND ACETATE OF  
LEAD.

R. Liquid chloride of iron four ounces  
Evaporate to one-half, and add  
Acetate of lead four ounces  
Dry, and pulverize. Four to twelve grains  
in hemorrhages. *Cadet de Gassicourt.*

## TINCTURE OF CHLORIDE OF IRON.

R. Subcarbonate of iron half a pound  
Muriatic acid one pint  
Alcohol three pints  
Pour the acid on the subcarbonate; digest  
for three days, shaking occasionally, set by  
to settle, decant, and add the alcohol to  
the clear solution. *U. S. Ph.*

An active and energetic preparation; tonic,  
diuretic, styptic, &c. Dose, ten to thirty drops,  
gradually increased, two or three times a-day.

## SYRUP OF CHLORIDE OF IRON.

R. Chloride of iron one part  
Syrup twenty-three parts  
Dissolve. Dose, one to four drachms.  
*Beral.*

## CHLORIDE OF IRON MIXTURE.

R. Saffron half a drachm  
Water four fl. ounces  
Infuse for an hour, strain, and add  
Chloride of iron half a drachm  
Syrup of valerian two ounces  
Mix. Dose, a tablespoonful several times  
a-day, in hemorrhages or chlorosis.  
*Cadet de Gassicourt.*

R. Mallow root two drachms  
Water sufficient  
to obtain two ounces of decoction, strain,  
and add

Gum Arabic two drachms  
Chloride of iron half a scruple  
Syrup of mallows six drachms  
Mix. Two teaspoonfuls, every hour or two,  
in softening of the stomach. *Radius.*

R. Tincture of chloride of iron  
Compound tincture of  
aloes, each, half a fl. ounce  
Tincture of castor two fl. drachms  
Mix. Ten to thirty drops, three times  
a-day, in infusion of chamomile, as an  
emmenagogue. *Ellis.*

ETHEREAL, OR BESTERCHEFFE'S TINC-  
TURE OF CHLORIDE OF IRON.

R. Chloride of iron one part  
Sulphuric ether four parts  
Mix, and add  
Aleohol eight parts  
*Van Mons.*

R. Tincture of chloride of iron  
Sulphuric ether equal parts  
*Guibourt.*

R. Chloride of iron one part  
Hoffmann's anodyne seven parts  
*Beral.*

These are active preparations. Dose, twenty  
to thirty drops.

## TINCTURE OF CHLORIDE OF IRON.

R. Muriatic acid two ounces (troy)  
Proto carbonate of iron q. s. to saturate  
Honey two ounces and a-half  
Aleohol sufficient  
Saturate the acid with the carbonate, add  
the honey and sufficient alcohol to make  
nineteen fl. ounces; after standing six hours,  
filter. *W. Procter.*

## FERRI CITRAS.

## CITRATE OF IRON.

R. Crystals of citric acid      three parts  
 Hydrated oxide of iron (dry)   two parts  
 Distilled water at 180°      twelve parts  
 Dissolve, filter, and evaporate to consist-  
 ence of syrup, spread in thin layers, and  
 dry. *Duhamel.*

## LIQUID CITRATE OF IRON.

R. Citrate of iron      four ounces  
 Water      twelve fl. ounces  
 Dissolve, with the aid of heat, and evapor-  
 ate until the solution measures half a pint.  
*W. Procter.*

## SYRUP OF CITRATE OF IRON.

R. Liquid citrate of iron      one ounce  
 Syrup      fifteen ounces  
 Spirit of citron      two drachms  
 Mix. Dose, two drachms to an ounce.  
*Beral.*

## WINE OF CITRATE OF IRON.

R. Liquid citrate of iron      eight scruples  
 Rhine wine      sixteen ounces  
 Digest for two or three days, and filter.  
*Beral.*

## AROMATIC WINE OF CITRATE OF IRON.

R. Iron filings      one ounce  
 Lemon juice      three fl. ounces  
 Contused gentian      half an ounce  
     cinnamon      two drachms  
 Rhine wine      sixteen ounces  
 Digest for twenty-four hours, and decant.  
 The dose is a drachm to a fl. ounce, two or  
 three times a-day. *Hamburgh Cod.*

R. Iron filings      four ounces  
 Bitter oranges      four  
 Beat them together, and at the end of two  
 days, add to the mixture  
 Madeira wine      ten fl. ounces  
 Spirit of orange peel      two fl. ounces  
 Digest, and then express and filter. Dose,  
 half a drachm to two drachms.

*Batav. Ph.*

Said to be one of the best compounds of iron.

## TINCTURE OF CITRATE OF IRON.

R. Liquid citrate of iron      two ounces  
 Diluted alcohol      thirteen fl. ounces  
 Spirit of citron      one fl. ounce  
 Mix. Dose, ten to fifty drops. *Beral.*

## SYRUP OF CITRATE OF IRON.

R. Moist protocarbonate of iron,  
 (prepared as directed for  
 Vallet's mass, and washed  
 with sweetened water)      at will  
 Dissolve in a slight excess of citric acid,

dissolved in water, and evaporate to dry-  
 ness to make the syrup.

R. Citrate of iron      one ounce  
 Syrup      five fl. ounces  
 Dissolve. Dose, thirty drops to a tea-  
 spoonful. *E. Parrish.*

## AMMONIO CITRATE OF IRON.

R. Liquid citrate of iron      one ounce  
 Water of ammonia      sufficient  
 to saturate the excess of acid. More solu-  
 ble than the citrate. *Beral.*

## CITRATE OF IRON AND QUINIA.

R. Liquid citrate of iron      four parts  
 Solution of citrate of quinia      one part  
 Mix, and evaporate. As a tonic, in doses  
 of five grains, three times a-day. *Beral.*

FERRI FERROCYANU-  
RETUM.

## PRUSSIAN BLUE.

R. Sulphate of iron      four ounces  
 Sulphuric acid      three fl. drachms and a-half  
 Nitric acid      six fl. drachms  
 Ferrocyanuret of  
     potassium      four ounces and a-half  
 Water      two pints  
 Dissolve the sulphate in a pint of the wa-  
 ter, add the sulphuric acid, and boil.  
 Add the nitric acid in small portions, boil-  
 ing for a few moments after each addition,  
 till a dark color is no longer produced,  
 and allow to cool. Dissolve the ferrocya-  
 nuret in the rest of the water, and add  
 the solution by degrees, to the first liquid,  
 stirring each time. Filter, wash the pre-  
 cipitate with boiling water, until the wash-  
 ings are tasteless. Dry, and powder.

*U. S. Ph.*

Tonic, febrifuge, and alterative. Dose, three  
 to five grains, several times a-day, gradually in-  
 creased till some effect is produced.

## POWDER OF PRUSSIAN BLUE.

R. Prussian blue      twelve grains  
 Sugar      one drachm  
 Mix, and divide into twelve powders.  
 One, every two hours. In epilepsy.

*Radiis.*

## COMPOUND POWDER OF PRUSSIAN BLUE.

R. Prussian blue      twelve grains  
 White pepper  
     Mustard, each,      half an ounce  
 Mix, and divide into twelve powders.  
 One, every quarter of an hour, in the  
 apyrexia of intermittents. *Foy.*



R. Prussian blue  
Powdered guaiacum, each, half to one drachm  
Mix, and divide into twelve powders.  
One, three times a-day, in intermittents.

*Ellis.*

## PILLS OF PRUSSIAN BLUE.

R. Prussian blue  
eighteen to thirty-six grains  
Gum ammoniac  
Extract of dandelion  
Rhubarb, each, one drachm  
Mix. Four to six, twice a-day. In disease of the ganglionic system.

*Radius.*

## MIXTURE OF PRUSSIAN BLUE.

R. Prussian blue one ounce  
Parsley water six ounces  
Cherry laurel water two drachms  
Mix. A spoonful, three times a-day. In stone and gravel.

*Radius.*

## OINTMENT OF PRUSSIAN BLUE.

R. Codliver oil one ounce  
Prussian blue twenty-four grains  
Cyanide of mercury eight grains  
Oil of cherry laurel four drops  
Mix. As an application in strumous ophthalmia.

*Canon de Villards.*

## BLUE INK.

R. Pure Prussian blue six parts  
Oxalic acid one part  
Triturate with a little water, to a perfectly smooth paste, then dilute with water, to a proper consistence. A little gum may be added to prevent the fluid from spreading.

*Mohr.*

## FERRI GALLAS.

## GALLATE OF IRON.

This is not used in medicine, but, with the tannate of iron, forms the basis of writing ink.

## WRITING INK.

R. Aleppo galls, bruised, twelve pounds  
Water six gallons  
Boil in a copper vessel for an hour, adding water, to supply loss by evaporation, strain; boil residue with four gallons of water, for half an hour, and again boil with two gallons of water; mix decoctions, and add

Sulphate of iron four pounds  
Contused gum

Arabic three pounds and a-half  
Agitate, permit to settle, strain through fine hair sieve, and keep in close vessels.

*Lewis.*

R. Powdered galls eight pounds  
Rasped logwood four pounds  
Gum Arabic three pounds  
Sulphate of iron four pounds

copper

Sugar candy, each, one pound  
Gum ammoniac two ounces  
Water sixteen pints  
Alcohol half a pint

Macerate for forty-eight hours, with a gentle heat, let rest for ten days, and decant into bottles.

*Hunt.*

R. Powdered galls fifty parts  
Water eight hundred parts

Digest for twenty-four hours, strain, and add

Sulphate of iron  
Gum Arabic, each, twenty-five parts

When clear, add a solution of

Muriate of ammonia eight parts  
Gum Arabic two parts  
Boiling water sixteen parts

Oil of lavender one part

Said to be indelible.

*Guibourt.*

R. Bruised galls forty ounces  
Gum Arabic ten ounces  
Sulphate of iron nine ounces  
Soft water forty-five fl. ounces

Macerate for three weeks, often stirring.

A very permanent ink.

*English Exchequer.*

## FERRI IODIDUM.

## IODIDE OF IRON,

R. Iodine two ounces  
Iron filings one ounce  
Distilled water one pint and a-half

Mix the iodine with a pint of the water, in a glass vessel, gradually add the iron filings, constantly stirring. Heat till liquid becomes of a light greenish color, filter and wash residuum with remainder of water, boiling hot. Evaporate liquid to dryness, in an iron vessel, at a heat not above 212°. Keep in well-closed bottle.

*U. S. Ph.*

Tonic, alterative, diuretic, and emmenagogue.  
Dose, three grains, gradually increased to eight, or more.

## LOZENGES OF IODIDE OF IRON.

R. Iodide of iron thirty grains  
Saffron half a drachm

Mucilage of tragacanth

Infusion of cinnamon, each, sufficient  
Mix, and make two hundred and forty lozenges. Fifteen to twenty a-day, gra-



dually augmenting, in amenorrhœa and leucorrhœa. *Pierquin.*

#### PILLS OF IODIDE OF IRON.

R. Iodide of iron                   one drachm  
Bromide of sodium           half a drachm  
Extract of liquorice           sufficient  
Mix, and form pills of two grains. One to three, morning and evening, in serofula, &c. *Wernick.*

#### PILLS OF PROTO-IODIDE OF IRON.

R. Crystallized sulphate  
    of iron                   24.7 grains  
Iodide of potassium       32.4 grains  
Gum tragacanth           4.6 grains  
Sugar                   15.4 grains  
Syrup of marsh mallows  
Powder of marsh mallows,  
    each,                   sufficient  
Mix, and make thirty-six pills. Reduce the sulphate to a fine powder, then the iodide of potassium; triturate the mixture, then add the gum, sugar, and syrup, and, if necessary, the powder of marshmallow. Each contains .8 of a grain of dry iodide, or 1.09 of the hydrated iodide of iron. Keep in closed bottles, in a dry place. *Callond.*

#### SOLUTION OF IODIDE OF IRON.

R. Iodide of iron                   one drachm  
Distilled water           one fl. ounce  
Mix. Six, to ten drops, three times a-day, in some cold water. *Ellis*  
R. Iodide of iron           twenty-four grains  
Distilled water           one fl. ounce  
Dissolve. A teaspoonful is a dose; this contains three grains. *Ellis.*

#### OFFICIAL SOLUTION OF IODIDE OF IRON.

R. Iodine                   two ounces  
Iron filings               one ounce  
Clarified honey           five fl. ounces  
Distilled water           sufficient  
Mix the iodine with ten fl. ounces of the water, in a porcelain or glass vessel, gradually add the iron filings, constantly stirring. Heat gently till the mixture becomes of a light greenish color, add honey, continue heat for a short time, and filter. Wash the residuum on filter, and allow to pass till the whole of the filtered liquid amounts to twenty fl. ounces. *U. S. Ph.*

Dose, from thirty to seventy-five drops.

#### SYRUP OF IODIDE OF IRON.

R. Dry iodine               two hundred grains  
Fine iron wire, well  
    cleaned,               one hundred grains

White sugar, in

    powder,               four ounces and a-half  
Distilled water           six fl. ounces

Boil the iodine, iron, and water, together, in a glass matrass; at first gently, to avoid the expulsion of iodine vapor, afterwards briskly, till about two fl. ounces remain. Filter this quickly, while hot, into a matrass containing the sugar, dissolve with a gentle heat, and add distilled water to make up six fl. ounces. Twelve minims contain one grain of iodide of iron.

*Ed. Ph.*

#### SYRUP OF PROTO-IODIDE OF IRON.

R. Sulphate of iron one drachm and a-half  
Iodide of potassium   two drachms  
Water                   half an ounce  
Syrup                   one ounce and a-half  
Rub the salts together, dissolve them in the water, add the syrup, and bottle at once. *W. Procter.*

#### WINE OF IODIDE OF IRON.

R. Sulphate of iron           eight parts  
Iodide of potassium,       ten and a-half parts  
White wine               three hundred and twenty parts  
Pulverize the two salts, adding a few drops of wine, triturate for a few moments, add the rest of the wine, and filter. To be kept in glass-stopped bottles. Thirty-two parts contain one of the iodide. *Callond.*

R. Iodide of iron           half an ounce  
Claret wine               one pint  
Dissolve. A dessertspoonful, morning and evening. *Soubiran.*

#### TINCTURE OF IODIDE OF IRON.

R. Iodide of iron           one drachm  
Alcohol                   one fl. ounce  
Distilled water, each,   one fl. ounce  
Mix. Thirty drops to a fl. drachm, twice a-day. *Foy.*

#### TINCTURE OF PROTO-IODIDE OF IRON.

R. Sulphate of iron           eight parts  
Iodide of potassium,       ten and a-half parts  
Alcohol (.842)           one hundred and sixty parts  
Triturate the salts, separately, and then together; add alcohol, and filter. To be kept in glass-stopped bottles. Sixteen parts contain one of iodide of iron. *Callond.*

#### MIXTURE OF IODIDE OF IRON.

R. Iodide of iron           sixteen grains

Compound tincture  
of gentian one fl. ounce  
Distilled water seven fl. ounces  
Mix. Two tablespoonfuls, two or three  
times a-day. *Ashwell.*

#### INJECTION OF IODIDE OF IRON.

R. Iodide of iron half an ounce  
Distilled water one pint  
Dissolve. As an injection, or lotion, in  
amenorrhœa, leucorrhœa, &c. *Soubeiran.*  
R. Iodide of iron three grains  
Distilled water six fl. ounces  
Dissolve. In gonorrhœa, strength to be  
increased if required. *Ricord.*

#### SYRUP OF IODIDE AND CHLORIDE OF IRON.

R. Iodine three hundred and  
eighty-four grains  
Muriatic acid  
(1.16) four ounces and a-half  
Powdered sugar twelve ounces  
Iron filings  
Distilled water, each, sufficient  
Mix the acid with an ounce and a-half of  
clear iron filings; allow to stand; agitate  
occasionally, when neutralized, filter. Mix  
the iodine with three ounces of water in a  
flask, add half the weight of iron filings,  
agitate till all the iodine is combined, and  
filter. Mix the solutions, add the sugar,  
and as much water as will make a pint.  
*W. Procter.*

#### SYRUP OF IODIDE AND CHLORIDE OF IRON MIXTURE.

R. Syrup of iodide and  
chloride of iron two drachms  
Syrup of orange peel four drachms  
Infusion of cascarrilla four fl. ounces  
Mix. One-fourth to be taken twice a-day.  
*Baitley.*

#### BATH OF IODIDE OF IRON.

R. Iodide of iron two ounces  
Water two hundred pints  
In leucorrhœa, amenorrhœa, chlorosis, &c.  
The quantity of iodide may be increased  
gradually to double, for adults. *Pierquin.*

#### OINTMENT OF IODIDE OF IRON.

R. Iodide of iron one drachm and a-half  
Lard one ounce  
Triturate together. A piece as large as a  
hazelnut to be rubbed on the inside of the  
thigh, morning and evening, in leucorrhœa,  
and amenorrhœa, also beneficial in glandu-  
lar swellings. *Pierquin.*

### FERRI LACTAS.

#### LACTATE OF IRON.

R. Lactate of lime one hundred parts  
Boiling water five hundred parts  
Dissolve.

Pure sulphate of iron sixty-eight parts  
Distilled water five hundred parts  
Dissolve

Mix the two solutions; filter, add an ex-  
cess of lactic acid, heat in a water-bath,  
stirring constantly; filter, to separate the  
sulphate of lime, evaporate rapidly either  
in an iron vessel or porcelain one, with the  
addition of some iron filings; filter, and  
crystallize, wash the crystals with alcohol,  
and dry. *Lepage.*

Used in same cases as other preparations of  
iron. Dose, one or two grains, frequently re-  
peated.

#### LOZENGES OF LACTATE OF IRON.

R. Lactate of iron one drachm  
Sugar one ounce and a-half  
Mucilage of gum Arabic sufficient  
Mix, and make lozenges of twelve grains.  
*Cap.*

#### PILLS OF LACTATE OF IRON.

R. Lactate of iron  
Powdered mallows equal parts  
Clarified honey sufficient  
Make pills of ten grains each. *Cap.*

#### SYRUP OF LACTATE OF IRON.

R. Lactate of iron one drachm  
White sugar twelve ounces and a-half  
Boiling distilled  
water six fl. ounces and a-half  
Triturate the lactate with half an ounce of  
the sugar, dissolve quickly in the boiling  
water, pour the solution into a matrass,  
place on a sand-bath, add the rest of the  
sugar gradually; when dissolved, filter,  
and when cold, pour in well-stopped bot-  
tles.

Dose, from two to four fl. drachms.

*Cap.*

### FERRI MALAS.

#### MALATE OF IRON.

R. Black oxide of iron at will  
Juice of sour apples sufficient  
Heat the juice to the boiling point, add the  
oxide, as long as any is dissolved, cool,  
filter, and evaporate to dryness. Dose,  
eight grains to a scruple. *Van Mons.*

#### SOLUTION OF MALATE OF IRON.

R. Malate of iron one ounce

Water twelve fl. ounces  
Dissolve, and filter. As an astringent, in doses of a fl. drachm. *Spielmann.*

#### TINCTURE OF MALATE OF IRON.

R. Malate of iron one part  
Cinnamon water  
Alcohol, each, three parts  
Macerate for three days, and filter. Dose, forty to sixty drops. *Austrian Ph.*

#### MIXTURE OF MALATE OF IRON.

R. Extract of Peruvian bark  
gentian, each, one drachm  
Peppermint water  
Chamomile water, each, one fl. ounce  
Malate of iron half a drachm  
To be taken in divided doses, in dyspepsia, &c. *Augustin.*

#### BITTER INFUSION OF IRON.

R. Iron filings three ounces  
Bruised ginger  
gentian, each, one ounce  
orange peel half an ounce  
Infuse in a pint of strong old cider for a month, frequently agitating, and filter.

Dose, half a drachm to one drachm, thrice daily, as a tonic.

"*Wine-Bitters*" *Gr Physic*

#### FERRI NITRAS.

##### NITRATE OF IRON.

R. Red oxide of iron four drachms  
Nitric acid six fl. drachms  
Dissolve, and add  
Water one fl. ounce  
Filter. Dose, six to twelve drops, in a convenient vehicle. In dyspepsia, and calculous complaints. *Svediaur.*

##### SOLUTION OF PERSESQUINITRATE OF IRON.

R. Iron wire (cut small) one ounce and a-half  
Nitric acid three fl. ounces  
Water fifteen fl. ounces  
Dissolve, decant, and filter, add  
Muratic acid one fl. drachm  
Diluted with sufficient water to make the whole twenty fl. ounces. Dose, ten drops several times a-day, gradually increasing. Has been of great benefit in chronic diarrhoea, &c. *Kerr.*

#### FERRI OXIDUM HYDRATUM.

##### HYDRATED OXIDE OF IRON.

R. Sulphate of iron four ounces  
Sulphuric acid three fl. drachms  
and a-half

Nitric acid six fl. drachms  
Solution of ammonia sufficient  
Water two pints

Dissolve the sulphate in the water, gradually add the sulphuric acid, boil, add nitric acid very gradually, boiling after each addition, till no dark color is produced. Filter, allow to cool, add solution of ammonia, stirring well. Wash precipitate with water, as long as washings give a precipitate with chloride of barium. Keep in close bottles, under water. *U. S. Ph.*

Used, in large doses, as an antidote to arsenic.

#### FERRI OXIDUM NIGRUM.

##### BLACK OXIDE OF IRON.

R. Sulphate of iron six ounces  
Sulphuric acid  
two fl. drachms, two fl. scruples  
Pure nitric acid four fl. drachms and a-half  
Stronger water of ammonia four fl. ounces and a-half  
Boiling water three pints  
Dissolve half the sulphate in half the water, add the sulphuric acid, and boil; add the nitric acid, gradually, boiling briskly after each addition. Dissolve the rest of the sulphate in the remainder of the water, mix the two solutions, and immediately add the ammonia, stirring briskly. Collect the precipitate on a muslin filter, wash in water till the washings scarcely give a precipitate with nitrate of baryta; dry, at a low temperature. *Ed. Ph.*

R. Wash blacksmiths' scales with water, dry, separate metallic iron by means of magnet, reduce to powder, and proceed as for prepared chalk. *Dub. Ph.*

R. Iron filings, any quantity; place in an earthenware pan, wet thoroughly with water; in an hour, heap up on an iron plate; twelve hours afterwards, moisten with hot water, and repeat this in twelve hours, and, a day afterwards, triturate with cold water, decant the turbid water, let it settle, collect the deposit on a filter, and when perfectly drained dry by a mild heat. *Par. Cod.*

These do not give identical products, but they are sufficiently alike to be used for the same purposes.

##### POWDER OF BLACK OXIDE OF IRON.

R. Black oxide of iron three parts  
Aromatic powder six parts  
Sugar eight parts



Mix. Dose, thirty to forty grains, twice a-day, in leucorrhœa and rachitis.

*Swediaur.*

- R. Black oxide of iron  
 Columbo, each, one drachm  
 Rind of bitter orange half an ounce  
 Cinnamon one scruple

Mix, and divide into nine powders. Three to be given a-day, in chlorosis and amenorrhœa.

*Brera.*

#### PILLS OF BLACK OXIDE OF IRON.

- R. Black oxide of iron eight grains  
 Powdered saffron

valerian, each, sixteen grains

Syrup of wormwood sufficient

Mix, and form eight pills; four to eight a-day, in amenorrhœa.

*Foy.*

- R. Black oxide of iron  
 Powdered winter's  
 bark, each, one drachm  
 Extract of ox bile

centaury, each, three drachms

Mix, and form pills of four grains. Four to six a-day, in engorgements of the abdominal viscera.

*Pierquin.*

#### ELECTUARY OF BLACK OXIDE OF IRON.

- R. Black oxide of iron half an ounce  
 Carbonate of potassa two scruples  
 Prepared chalk  
 Ginger, each, two drachms  
 Syrup of orange-peel sufficient

Mix well. Dose, half a drachm, two or three times a-day, in chlorosis and leucorrhœa.

*Swediaur.*

- R. Black oxide of iron  
 Soap, each, one drachm  
 Extract of hemlock twelve grains  
 squill one scruple

Oxymel sufficient

Mix well. Dose, half a drachm to a drachm, in dropsy, with engorgement of the abdominal viscera.

*Brera.*

### FERRI OXIDUM RUBRUM.

#### RED OXIDE OF IRON.

R. Sulphate of iron, any quantity; heat till water of crystallization is expelled, then roast by a powerful heat, till all acid is driven off, wash, till all traces of acid disappear, dry.

*Dub. Ph.*

Astringent and tonic, and has been advised in neuralgia, &c., in doses of five to fifteen grains, but is inferior to the subcarbonate.

#### PILLS OF RED OXIDE OF IRON.

- R. Red oxide of iron

Powder of pot marygold

Extract of pot marygold, each, one drachm

Mucilage of gum Arabic sufficient  
 Mix, and form ninety pills. Highly spoken of in cancerous affections; five to eight to be taken, three times a-day.

*Rust.*

#### RED OXIDE OF IRON PLASTER.

- R. Litharge plaster two pounds  
 Frankincense half a pound

Red oxide of iron three ounces

Melt the plaster and frankincense together, add the oxide, and stir well.

*Dub. Ph.*

As a strengthening plaster, in muscular relaxation and weakness.

- R. Lead plaster twenty-four parts  
 Resin six parts

Olive oil

Yellow wax, each, three parts

Red oxide of iron eight parts

Triturate the oxide with the oil, and add to a mixture of the other substances, melted together.

*Guibourt.*

### FERRI PHOSPHAS.

#### PHOSPHATE OF IRON.

- R. Sulphate of iron five ounces  
 Phosphate of soda six ounces  
 Water one gallon

Dissolve the sulphate and phosphate, each, in four pints of the water, mix the solutions, and let settle; decant, wash the precipitate with hot water, and dry with a gentle heat.

*U. S. Ph.*

Used with advantage in amenorrhœa, and certain cases of dyspepsia. Dose, five to ten grains.

### FERRI SULPHAS.

#### SULPHATE OF IRON.

- R. Iron wire, in small  
 pieces, twelve ounces  
 Sulphuric acid eighteen ounces  
 Water one gallon

Mix the acid and water, and add the iron; heat till effervescence ceases. Pour off the solution, add half a drachm of sulphuric acid, filter, the end of the funnel touching the bottom of the receiving vessel. Evaporate in a matrass, set aside to crystallize in a covered vessel, drain crystals in a funnel, dry, and keep in well-closed bottles.

*U. S. Ph.*

Astringent and tonic. Dose, from one to five grains.



## DRIED SULPHATE OF IRON.

R. Sulphate of iron at will  
Heat over a moderate fire, in a porcelain vessel, till converted into grayish white mass, cool, and powder. *Ed. Ph.*

Three grains are equal to five of the undried.

## POWDER OF SULPHATE OF IRON.

R. Powdered sulphate of iron four grains  
ginger ten to sixteen grains

Mix. To be taken twice a-day, in amenorrhœa, chlorosis, &c. *Saunders.*

R. Powdered sulphate of iron half an ounce

tansy three ounces

Mix. Dose, a drachm. As a vermifuge. *Dan. Ph.*

## PILLS OF SULPHATE OF IRON.

R. Dried sulphate of iron two parts  
Extract of dandelion five parts

Conserve of red roses two parts

Powdered liquorice root three parts

Beat together, and form into five-grain pills. *Ed. Ph.*

R. Sulphate of iron two drachms

Extract of wormwood half an ounce

Syrup of saffron sufficient

Beat into mass, and divide into one hundred and fifty pills. Four to five, three times a-day. In chlorosis, leucorrhœa, &c. *Werthof.*

R. Sulphate of iron

Kino

Gentian

Extract of gen-

tian, each, one drachm and a-half

Turpentine three drachms

Powdered mallow root sufficient

Beat into mass, and make two hundred and seventy pills. Ten, four times a-day, in secondary gonorrhœa. *Walch.*

## BLAND'S ANTI-CHLOROTIC PILLS.

R. Sulphate of iron, in fine powder one ounce

Carbonate of potassa, in dry powder one ounce

Mucilage of tragacanth

Powdered liquorice root, each, sufficient

To make ninety-nine pills. Triturate well, and divide into pills. To be taken, one in the morning and evening, for the first three days, a third pill at noon for the next three days, and so increased to nine a-day. *Bland.*

## PILLS OF IRON AND RHUBARB.

R. Dried sulphate of iron four parts

Extract of rhubarb ten parts

Conserve of red roses five parts

Beat into mass, and form five-grain pills.

*Ed. Ph.*

Tonic and laxative. In dose of two or three.

## COMPOUND SULPHATE OF IRON PILLS.

R. Sulphate of iron one scruple

Powdered senna

jalap

cremor tar-

tar, each, half a scruple

ginger twelve grains

Syrup sufficient

Form mass, and divide into twenty-five pills. *Ellis.*

These are known as *Hooper's pills*, as are also the following:—

R. Barbadoes aloes eight ounces

Sulphate of iron four ounces

Extract of hellebore

Myrrh

Soap, each, two ounces

Powdered cinnamon

ginger, each, one ounce

Water sufficient

Beat into mass, and divide into two and a-half grain pills. *Phil. Coll. Pharm.*

As laxative and emmenagogue.

R. Dried sulphate of iron one scruple

Powdered aloes two scruples

cloves five grains

Venice turpentine sufficient

Form mass, and divide into twenty pills.

One, three times a-day, as an emmenagogue. *Ellis.*

## SOLUTION OF SULPHATE OF IRON.

R. Sulphate of iron

Alum, each, six ounces

Water forty-eight ounces

Dissolve, filter, and add

Sulphuric acid four ounces

In hemorrhages, in doses of ten or twelve drops in water. *Spielmann.*

## SULPHATE OF IRON INJECTION.

R. Sulphate of iron half to one drachm

Sage water four ounces

Mucilage gum Arabic half a drachm

Mix. As an injection, in nasal and uterine hemorrhages. *Berends.*

## COMPOUND IRON MIXTURE.

R. Myrrh one drachm and a-half

Oil of partridge berry six drops

nutmeg two drops

Carbonate of potassa two scruples

White sugar one ounce

Sulphate of iron half a drachm

Distilled water seven fl. ounces

Rub down the myrrh and the oils with some of the water added very gradually, then add the carbonate of potassa and sugar, and lastly the sulphate of iron, dissolved in the rest of the water, and immediately bottle.

*Bond.*

#### MIXTURE OF SULPHATE OF IRON.

R. Sulphate of iron two grains  
Sulphuric acid four to six drops  
White sugar one drachm  
Water four fl. ounces  
Mix. A teaspoonful, with water, every two to four hours, as a tonic. *Ellis.*

R. Sulphate of iron four grains  
Elixir of vitriol twenty drops  
Distilled water one fl. ounce

Mix. A teaspoonful, in a wineglass of water, three times a-day. *Ellis.*

R. Powdered myrrh one drachm  
gum Arabic two drachms  
Syrup one fl. ounce  
Infusion of chamomile six fl. ounces

Mix well, and add  
Powdered sulphate of iron fifteen grains  
Cinnamon water one fl. ounce

Mix. Two spoonfuls, every three hours, as an emmenagogue. *Frank.*

#### SYRUP OF SULPHATE OF IRON.

R. Sulphate of iron two drachms  
Water one fl. ounce

Dissolve, filter, and add

Syrup of gum  
Arabic seventeen fl. ounces

Mix. A tablespoonful, twice a-day, in chlorosis, leucorrhœa, &c. *Soubiran.*

### FERRI SULPHURETUM.

#### SULPHURET OF IRON.

Heat an iron rod to a white heat, apply to it a roll of sulphur, receiving the sulphuret of iron in water; separate it from the sulphur, dry, and keep in a well-stopped bottle. *Dub. Ph.*

Used to make hydrosulphuric acid, by the addition of diluted sulphuric acid.

### FERRI ET POTASSÆ TARTRAS.

#### TARTRATE OF IRON AND POTASSA.

R. Subearbonate of iron three ounces  
Muratic acid ten fl. ounces  
Solution of potassa five pints and a-half  
Bitartrate of potassa seven ounces and a-half

Distilled water one gallon and a-half  
Mix the subearbonate with the acid, digest for two hours, pour into a gallon of the water, let rest for an hour, decant, add solution of potassa, wash precipitate, and whilst moist, mix with the bitartrate and half a gallon of the water, keep at a temperature of 140° for thirty hours, often stirring; filter, and evaporate on a water-bath, at same temperature, to dryness. *U. S. Ph.*

Dose, from ten grains to half a drachm, in solution, or with an aromatic or bitter, in bolus.

#### POWDER OF TARTRATE OF IRON AND COLUMBO.

R. Tartrate of iron and potassa two scruples  
Powdered columbo half a drachm  
Mix, and divide into four powders. One, every three or four hours, in syrup. As a tonic. *Ellis.*

#### EFFERVESCENT POWDER OF TARTRATE OF IRON.

R. Subearbonate of magnesia two drachms  
Carbonate of potassa half an ounce  
Tartrate of iron two scruples  
Two or three teaspoonfuls in water, during the day; to be taken whilst effervescing. *Radius.*

#### SOLUTION OF TARTRATE OF IRON AND POTASSA.

R. Tartrate of iron and potassa one ounce  
Cinnamon water one pint  
Dissolve; as a lotion or fomentation for bruises. Internally in leucorrhœa, chlorosis, &c. *Svediaur.*

#### COMPOUND WINE OF TARTRATE OF IRON.

R. Subearbonate of iron one ounce and a-half  
Powdered gentian  
orange peel, each, half an ounce

Red wine two pints

Macerate for three days, and give a wine-glassful two or three times a-day. In dyspepsia, &c. *Ellis.*

R. Subearbonate of iron two ounces  
Powdered cinnamon one ounce  
Rhine wine two pints

Macerate for some days, and filter. *Van Mons.*

#### WINE OF TARTRATE OF IRON.

R. Subearbonate of iron one part  
Rhine wine twenty-four parts  
Macerate for some days, and filter. Dose, one or two ounces. *Soubiran.*

COMPOUND TINCTURE OF TARTRATE OF IRON.

R. Tartrate of iron wine  
Tincture of calamus  
Hoffmann's balsamic  
elixir, each, four fl. drachms  
Mix. Dose, seventy drops, morning and evening, in wine. Said to be an excellent remedy in ascarides. *Dorfmüller.*

FERRI AMMONIO-TARTRAS.

AMMONIO-TARTRATE OF IRON.

R. Tartaric acid one part  
Boiling water sufficient  
to dissolve, add  
Iron filings three parts  
Digest in a warm place, for two or three days. Add caustic ammonia in slight excess, stir well, pour off the solution, set it aside, decant the clear liquid, and evaporate to dryness; redissolve in distilled water, add a little more ammonia, filter, and evaporate, in shallow, porcelain dishes, by a gentle heat, till it becomes brittle, then chip it off with a blunt-pointed knife. *Aikin.*

R. Tartaric acid fifty drachms  
Water one gallon  
Saturate with

Carbonate of ammonia  
And add fifty drachms more of acid. Heat the solution in a water-bath, and add moist hydrated oxide of iron (derived from fifty-three and a-half drachms of subcarbonate of iron dissolved in muriatic acid, and precipitated by ammonia). Digest till the oxide is dissolved, filter, and evaporate to dryness by means of a water-bath. *W. Procter.*

Has the same properties as the other preparations of iron, but has the advantage of being readily soluble, of being more palatable, and very permanent. The dose is five grains or more, in pills or solution.

SOLUTION OF AMMONIO-TARTRATE OF IRON.

R. Ammonio-tartrate of iron half a drachm  
Distilled water seven fl. drachms  
Rectified spirit one fl. drachm  
Mix, and dissolve. *Aikin.*

FERRI TANNAS.

TANNATE OF IRON.

R. Tannic acid ninety parts

Boiling water sufficient  
to dissolve, add gradually  
Subcarbonate of iron four hundred and forty parts  
Agitate till effervescence ceases. Evaporate at 176°, in a porcelain vessel, until it becomes thick, then dry on a plate, in a stove, at 95°. *Benedetti.*

Found useful in chlorosis, in doses of two or three grains, thrice a-day, increasing the dose as required.

FERRI VALERIANAS.

VALERIANATE OF IRON.

R. Clean iron filings at will  
Put in a wedgewood mortar, add gradually an equal weight of valerianic acid, stirring continually. In an hour, add distilled water, pour the whole into a flask, warm gently, and filter. The surface, exposed to the air, becomes covered with a crystalline layer of valerianate of iron. Collect this on a filter, repeat this as long as crystals are formed.

Dose, one to two grains. *Ruspini.*

FICUS.

FIGS.

Figs are the fruit of *Ficus carica*, a small tree, a native of Asia, and now cultivated in all warm climates. There are numerous varieties. *Sex. Syst.* Polygam. diœc. *Nat. Syst.* Monacœæ.

Linn. Sp. Pl. 1513. Griffith, Med. Bot. 576.

They come to this country in a dry state, from the ports of the Levant. They are nutritious, laxative, and demulcent, and are used in medicine in demulcent decoctions, and sometimes externally, as a suppurative poultice.

DECOCTION OF FIGS.

R. Figs one ounce  
Water one pint  
Boil, and strain. Demulcent and pectoral. *Cadet.*

GARGLE OF FIGS.

R. Figs  
Mallow root, each, one ounce  
Milk two pints  
Boil away one-fourth. As an emollient gargle in sore throat. *Radiüs.*

COMPOUND DECOCTION OF FIGS.

R. Figs  
Raisins, each, two ounces  
Barley water two pints  
Boil for a quarter of an hour, and add  
Liquorice root half an ounce  
Infuse, and strain. *Foy.*



This is identical with the compound decoction of barley, of the Lond. Ph., and like it, is nutritive, demulcent, and laxative.

#### COFFEE OF FIGS.

R. Figs, roasted like coffee, two drachms  
Water one pint  
Boil gently, and strain. *Radius.*

This is said to be an excellent substitute for coffee, and to form an excellent diet in diseases of the chest.

#### PASTE OF FIGS.

R. Figs at will  
Reduce to a pulp, express through a hair sieve, mix with four times the weight of sugar, concentrate by a gentle heat, and cut into lozenges. *Soubeyran.*

### FILIX MAS.

#### MALE FERN.

The Male Fern is the rhizome of *Nephrodium filix mas*, a native of the temperate regions of the whole world, in shady, rather damp situations.

*Sex. Syst.* Crypt. fil. *Nat. Syst.* Polypodiaceæ.  
Linn. Sp. Pl. 1551. (Polypodium). Griffith, Med. Bot. 670.

The rhizome is of a brown color, externally, with a feeble, but peculiar odor, and a sweet, bitter, astringent taste. It should always be used as fresh as possible. It is tonic and anthelmintic, but is not much used in this country. The dose, in substance, is from one to three drachms, twice a-day.

#### POWDER OF MALE FERN.

R. Male fern one ounce  
Gamboge  
Calomel, each, fourteen grains  
Scammony eighteen grains  
Mix, and divide into three powders. In tapeworm. *Cadet.*

#### BOLUS OF MALE FERN.

R. Male fern half an ounce  
Rhubarb two drachms  
Semen contra half an ounce  
Calomel one drachm  
Syrup of wormwood sufficient  
Mix, and form twelve boluses. *Spielmann.*

#### ETHEREAL EXTRACT OF MALE FERN.

R. Powdered male fern at will  
Exhaust it in a displacement apparatus, with ether, and distil off the ether. Dose, from fifteen to twenty grains, twice a-day.

#### PILLS OF EXTRACT OF MALE FERN.

R. Etheral extract of male fern one scruple  
Powder of male fern twelve grains  
Conserve of roses sufficient  
Mix, and make twelve to sixteen pills.

To be taken in the evening at short intervals. *Peschier.*

#### OIL OF MALE FERN.

R. Powdered male fern four parts  
Alcohol eight parts  
Digest for twenty-four hours, decant, repeat the operation with five parts of alcohol, unite the liquid, distil off the alcohol, mix the residue with three parts of water, distil, and permit to rest, and collect the oil which sinks to the bottom, and wash it with pure water. *Magendie.*

#### PILLS OF OIL OF MALE FERN.

R. Oil of male fern twenty-four drops  
Powdered mallow root three scruples  
Fresh lard two scruples  
Mix, and divide into twenty-four pills. One-half to be taken in the evening, and the remainder next morning, and, an hour afterwards, a dose of castor oil. *Jourdan.*

#### ELECTUARY OF MALE FERN.

R. Ethereal extract of male fern half a drachm  
Honey of roses one ounce  
Mix. Half in the evening, the remainder the next morning. *Radius.*

#### JELLY WITH MALE FERN.

R. Male fern  
Corsica moss, each, six drachms  
Isinglass one drachm  
Water eight ounces

Boil to three ounces, and strain; add

Ethereal extract of male fern one scruple  
Syrup of mulberries one ounce  
To be taken in divided doses, during the day. *Phabus.*

#### MIXTURE OF MALE FERN.

R. Male fern half an ounce  
Elecampane two drachms  
Wormwood a handful  
Semen contra one drachm  
Water sufficient

to obtain a quart of decoction; add

Vermifuge syrup one ounce  
Mix. *Bories.*

R. Powdered male fern four drachms  
Balm water three ounces  
Syrup of gum one ounce

Mix. To be taken in the evening, and, next morning, an ounce of castor oil. *Radius.*

#### TINCTURE OF MALE FERN BUDS.

R. Buds of male fern one part  
Sulphuric ether eight parts



Macerate for five days, and decant. Dose,  
from eight to thirty drops. *Foy.*

FŒNICULUM.

## FENNEL.

There are several varieties, or species of Fennel, closely resembling each other, and having the same properties; that recognized as official by the U. S. Pharm., is the *F. vulgare*, a native of Europe, and often cultivated in the gardens in this country.

*Ser. Syst.* Pentand. digyn. *Nat. Syst.* Apiaceæ.

Linn. Sp. Pl. 377. Griffith, Med. Bot. 321.

The part used is the seeds. These are fragrant, with a sweetish, warm, pleasant, aromatic taste. They are employed as a carminative, and as corrective of other, and more unpleasant remedies. The dose of the powder, is from a scruple to half a drachm.

COMPOUND POWDER OF FENNEL.

R. Powdered fennel seed	
anise	
lettuce	
white poppy	
benne, each,	one ounce
	and a-half
sugar	six ounces

Mix. Dose, a drachm, two or three times a-day. Said to increase the secretion of milk in nursing women.

*Neimann.*

### INFUSION OF FENNEL.

R. Fennel seed	one drachm
Boiling water	one pint
Infuse for two hours, and strain. Given	
in teaspoonful doses to infants, in windy	
colic, or used as an enema, for the same	
purpose.	<i>Taddei.</i>

### FENNEL WATER.

R. Oil of fennel half a fl. drachm  
Carbonate of magnesia half a drachm  
Distilled water two pints  
Rub the oil with the magnesia, gradually  
add the water, constantly rubbing, and  
filter. *U. S. Pl.*

### OIL OF FENNEL.

R. Bruised fennel seed                      at will  
Water    sufficient  
Mix, and distil.                      *Guibourt.*

Dose, five to fifteen drops.

### FENNEL OINTMENT.

R. Oil of fennel	thirty drops
Lard	four ounces
Triturate together.	Said to destroy lice
in the hair.	<i>Neimann.</i>

## FRASERA.

AMERICAN COLUMBO.

The *Fraseria carolinensis* is one of the tallest and most elegant of our native herbaceous plants, sometimes attaining a height of ten feet, with a pyramid of yellowish-white flowers, of three or four feet in length.

*Sex. Syst. Tetrand. monog. Nat. Syst. Gentianaceæ.*

Walter. Fl. Carol. 87. Griffith, Med. Bot. 462.

The root, which is the officinal portion, is large and succulent, and is usually dried in circular sections, like columbo. It has an odor in a dried state, but possesses a sweetish, bitter taste. It is a mild, bitter tonic, suited to all cases to which the simple bitters are applicable. The dose, in powder, is from thirty grains to a drachm.

INFUSION OF AMERICAN COLUMBO.

R. American columbo, bruised, one ounce  
Boiling water one pint  
Infuse for an hour, and strain. *Wood.*

Dose, one to two fl. ounces, several times a-day.

### TINCTURE OF AMERICAN COLUMBO.

R. Contused American columbo one ounce  
Diluted alcohol one pint  
Macerate for fourteen days, and filter.  
Dose, one to three drachms. *Dunghlison.*

FULIGO.

SOOT.

The soot of wood is of a black color, has a peculiar smell, and a bitter, disagreeable, empyreumatic taste. It owes its properties to the presence of pyrogenous oil or resin and creasote, but also contains various salts, united to acetic acid. It was formerly officinal, but gradually was relinquished in regular practice; but, of late years, has again attracted attention, and has been employed with success in a variety of diseases.

### PILLS OF SOOT.

R. Extract of soot	half a drachm
Comp. galbanum pill	one scruple
Oil of valerian	ten minims
Mix well, and form twelve pills, two,	
thrice a-day, in hysteria.	<i>Neligan.</i>

R. Soot	one drachm and a-half
Carbonate of ammonia	half a drachm
Tar	sufficient
Mix, and make five-grain pills.	<i>Ferriar.</i>

### DECOCTION OF SOOT.

R. Soot two handfuls  
Water two pints  
Boil, for half an hour, and strain. As a  
lotion, in herpetie, psoric, and venereal  
uleers. *Soubeiran.*



## G

## GALBANUM.

## GALBANUM.

This is the concrete juice of an unknown plant, but generally admitted to belong to the Apiaceæ. According to Don, and others, the Asiatic galbanum is the product of *Galbanum officinale*, a native of Persia.

Don, Trans. Linn. Soc. xvi. 603. Griffith, Med. Bot. 333.

Galbanum is in whitish or yellowish tears, or in brownish-yellow, or brownish masses, formed of these tears agglutinated, and containing various impurities. The odor is peculiar, and somewhat balsamic; the taste is hot, bitter, and acrid. It is stimulant, expectorant, and antispasmodic, in doses of ten to twenty grains, and also used externally to indolent swellings, &c.

## PURIFIED GALBANUM.

R. Galbanum one part  
Alcohol four parts

Dissolve by means of a water-bath, strain, treat the residue with a fresh quantity of alcohol, unite the two solutions, distil off the alcohol, and evaporate the residue.

*Guilbourt.*

## COMPOUND GALBANUM PILLS.

R. Galbanum  
Myrrh, each, one ounce and a-half  
Assafetida half an ounce  
Syrup sufficient

Beat into mass, and divide into four hundred and eighty pills. *U. S. Ph.*

Dose, ten to twenty grains, in chlorosis and hysteria.

R. Galbanum two drachms  
Oil of savine four to twelve drops  
Malate of iron one drachm and a-half  
Powdered valerian sufficient

Beat into mass, and divide into one hundred and twenty pills. Two, three times a-day, in amenorrhœa, chlorosis, &c.

*Phæbus.*

## GALBANUM MIXTURE.

R. Galbanum two drachms  
Vinegar of squills  
Fennel water, each, two fl. ounces  
Spirit of mindererus two fl. drachms  
Nitric ether one fl. drachm  
Syrup of mallows half fl. ounce

Mix. Three or four spoonfuls a-day, in humid asthma. *Jahn.*

## TINCTURE OF GALBANUM.

R. Galbanum, in small pieces, two ounces

Proof spirit two pints

Digest for seven days, and filter.

*Dub. Ph.*

Antispasmodic, &c. In doses of one to three fl. drachms.

## COMPOUND TINCTURE OF GALBANUM.

R. Tincture of galbanum  
wormwood

Spirit of rosemary equal parts

Mix. Dose, forty to fifty drops. *Augustin.*

## GALBANUM PLASTER.

R. Lead plaster two pounds  
Galbanum half a pound  
Yellow wax four ounces

Melt the galbanum, add the plaster and wax, and melt the whole, and strain.

*Dub. Ph.*

## COMPOUND GALBANUM PLASTER.

R. Galbanum eight ounces  
Lead plaster three ounces  
Turpentine ten drachms  
Burgundy pitch three ounces

Melt the galbanum and turpentine together, strain, add the pitch, and then the lead plaster, melted; mix well. *U. S. Ph.*

A good application to chronic, scrofulous enlargements of the glands and joints.

R. Lead plaster ninety-six parts

Ammoniac

Galbanum

Vinegar, each,

eight parts

Powder of saffron

three parts

Melt together, and strain.

*Lond. Ph.*

R. Galbanum and saffron  
plaster

eight parts

Camphor

Petroleum

Subcarbonate of ammonia, each,

one part

Melt together. In chronic rheumatism.

*Augustin.*

R. Galbanum

Turpentine, each,

one part

Melt, strain, and add a melted mixture of

White wax

four parts

Spermaceti

two parts

Oil of almonds

one part

Mix well. A milder application than any of the above. *Spielmann.*



## GALIUM VERUM.

## YELLOW LADIES BEDSTRAW.

A perennial, herbaceous plant, native of Europe, which is stated to have the power of coagulating milk, and also used to dye yellow.

*Sex. Syst.* Tetrand. monog. *Nat. Syst.* Rubiaceæ.

Linn. Sp. Pl. 155. Stokes, Bot. Mat. Med. i. 202.

The whole plant is used; it has an agreeable odor, and an astringent, acidulous, somewhat acrid taste. It was, at one time, much used in epilepsy and hysteria, and also as an application in cutaneous affections.

## INFUSION OF YELLOW LADIES BEDSTRAW.

R. Flowers of yellow ladies  
bedstraw two drachms  
Boiling water two pints  
Digest for an hour, and strain. This to be taken in a tepid state, in wineglassful doses, as a sedative and antispasmodic, in cerebral affections. *Chaussier.*

## WINE OF YELLOW LADIES BEDSTRAW.

R. Expressed juice of yellow  
ladies bedstraw six fl. ounces  
White wine one to two fl. ounces  
Mix. To be taken in epilepsy, as soon as indications of an attack manifest themselves. *Bories.*

## GALLA.

## GALLS.

Galls are morbid excrescences on *Quercus infectoria*, caused by the puncture of a hymenopterous insect, the *Diplolepis gallæ tinctoria*. They come from the Levant ports, and present several varieties, the best of which are dark colored. They are round, hard, solid, brittle, inodorous, and have a bitter, very astringent taste. They contain tannic and gallic acids. They are powerfully astringent. They are more used as external applications, than as internal remedies. Dose, ten to thirty grains, several times a-day.

## COMPOUND POWDER OF GALLS.

R. Powdered galls  
kino, each, half an ounce  
alum two drachms  
Mix. As a styptic. *Radiis.*

## INFUSION OF GALLS.

R. Powdered galls one to two drachms  
Boiling water one pint  
Digest for half an hour, and strain. Used for injections, fomentations, gargles, &c. *Taddei.*

## COMPOUND INFUSION OF GALLS.

R. Infusion of galls four fl. ounces  
Prepared chalk half an ounce  
Tincture of opium half fl. drachm

Powdered gum Arabic one drachm  
Mix. Dose, a tablespoonful every two hours. In diarrhœa. *Ellis.*

## GARGLE OF GALLS.

R. Infusion of galls seven fl. ounces  
Alcohol one fl. ounce  
Mix. As a gargle in relaxation of uvula and soft palate. *Ellis.*

## LOTION OF GALLS.

R. Claret wine one pint  
Common salt one drachm  
Sulphate of iron two drachms  
Boil for a few minutes, and add  
Oxide of copper one drachm  
Boil for two minutes. Add  
Powdered galls two drachms  
This is used to color the hair; it is to be washed with this fluid, dried with a warm cloth, and then washed with common water. *Laforest.*

## SYRUP OF GALLS.

R. Bruised galls two drachms  
Brandy eight fl. ounces  
Mix. Burn out the spirit, and add  
Powdered cinnamon  
mace, each, two drachms  
While hot, add sugar by burning it over the inflamed brandy, till a syrup is formed. Decant. Dose, a tablespoonful every two hours. In obstinate chronic diarrhœa. *Parrish.*

## TINCTURE OF GALLS.

R. Bruised galls four ounces  
Diluted alcohol two pints  
Macerate for fourteen days, express, and filter. *U. S. Ph.*

A powerful astringent, in doses of one to three fl. drachms.

R. Bruised galls one pound  
Water two pints  
Macerate twenty-four hours, and add  
Alcohol two pints  
Eau de Cologne six fl. ounces  
Filter. As an injection, diluted with water, in leucorrhœa and gonorrhœa. *Gibert.*

## EXTRACT OF GALLS.

R. Galls, in coarse powder at will  
Macerate in water sufficient to cover them for twenty-four hours; then introduce the moist mass into a displacer, and act on it with water, until the galls are nearly exhausted; evaporate the infusion to dryness, on a water-bath.

## OINTMENT OF EXTRACT OF GALLS.

R. Extract of galls one drachm  
Lard one ounce



Triturate the extract with a little water, until it is reduced to a uniform syrupy consistence, then add the lard, and mix thoroughly.

*D. S. Jones.*

#### OINTMENT OF GALLS.

R. Galls, in very fine powder, one ounce  
Lard seven ounces

Mix. As an application to piles, pro-lapsus ani, and also to indolent ulcers.

*U. S. Ph.*

#### COMPOUND OINTMENT OF GALLS.

R. Galls, in very fine powder, two drachms  
Powdered opium half a drachm  
Lard two ounces

Mix well. *Lond. Ph.*

As an application to irritable piles, &c.

R. Powdered galls  
Tincture of opium, each, two parts  
Camphor one part  
Lard eight parts

Triturate well together. As an application to painful piles. *Foy.*

R. Finely powdered galls one scruple  
Simple cerate one drachm  
Essence of lemon twenty drops  
Lead water

Laudanum, each, forty drops  
Rub well together. As an application to hemorrhoids, after subsidence of inflammation. *Dewees.*

### GAMBOGIA.

#### GAMBOGE.

This is the concrete juice of several species of East Indian trees, probably belonging to the genus *hebradendron*.

*Sex. Syst.* Polyand. monog. *Nat. Syst.* Clusiaceæ.

Graham, Comp. Bot. Mag. ii. 199. Griffith, Med. Bot. 152.

Gamboge is a gum resin, of a yellow-orange color, opaque, brittle, almost inodorous, of an insipid taste at first, but soon becoming acrid. It is a powerful hydragogue and drastic purgative, but apt to produce nausea and vomiting. Dose, from one to six grains, in pill, emulsion, or alkaline solution.

#### COMPOUND POWDER OF GAMBOGE.

R. Bitartrate of potassa two drachms  
Powdered jalap one drachm  
gamboge six grains

Mix, and divide into six powders. One to be given every two or three hours, in syrup, as a hydragogue purgative. *Ellis.*

R. Powdered gamboge two grains  
sulphate of iron six grains  
sugar one scruple

Oil of peppermint three drops  
Mix. To be taken twice a-day, against tape-worm. *Vogt.*

#### COMPOUND PILLS OF GAMBOGE.

R. Powdered gamboge one drachm  
aloes one drachm and a-half  
ginger half a drachm

Soap two drachms  
Beat into mass. *Lond. Ph.*

Dose, ten to twelve grains, as a purgative.

R. Powdered gamboge ten grains  
guaiaicum

Blanched almonds, each, one drachm  
Syrup sufficient

Beat together, and form twenty-eight pills. Two to four, as a gentle purgative. *Saunders.*

#### ALKALINE SOLUTION OF GAMBOGE.

R. Powdered gamboge one drachm  
Carbonate of potassa three drachms  
Water six drachms

Dissolve. Dose, fifteen drops, every three hours, as a hydragogue in dropsies. *Van Mons.*

#### GAMBOGE MIXTURE.

R. Powdered gamboge four grains  
Spirit of nitric ether one fl. drachm  
Tincture of senna two fl. drachms  
Mint water

Syrup of buckthorn, each, half fl. ounce

Mix. As a hydragogue purgative, in dropsy, especially in hydrothorax. *Ferriar.*

R. Gamboge two scruples  
Tartrate of potassa one ounce  
White sugar two drachms  
Water six ounces

Make a solution. As a purgative, in ascites. A tablespoonful, every two or three hours, until it operates. *Dewees.*

#### GAMBOGE AND ELATINE MIXTURE.

R. Gamboge four grains  
Elatine half a grain  
Sweet spirit of nitre one ounce  
Water four ounces

Mix. As a hydragogue purgative, in ascites. A tablespoonful, to be taken every two or three hours, until free purgation is induced. *Dewees.*

#### ALKALINE TINCTURE OF GAMBOGE.

R. Gamboge one part  
Carbonate of potassa two parts  
Diluted alcohol twenty-four parts  
Digest for some days, and filter. *Scherf.*

AMMONIACAL TINCTURE OF GAMBOGE.  
 R. Gamboge thirty-six grains  
 Spirit of ammonia four fl. ounces  
 Digest for eight days, and filter. Dose,  
 one to two fl. drachms. *Swediaeur.*

## GAULTHERIA. PARTRIDGE BERRY.

The leaves of *Gaultheria procumbens*; a small, indigenous, evergreen plant, found in most parts of the United States, in dry, sandy situations.

*Ser. Syst.* Decand. monog. *Nat. Syst.* Ericaceae.

*Kalm.* Moen. Acad. iii. 14. *Griffith, Med. Bot.* 424.

These leaves have a peculiar, aromatic taste and odor, with a little astringency. They are stimulant, and somewhat tonic and astringent, and are much used in the form of tea, in bowel diseases, and as an emmenagogue.

### OIL OF PARTRIDGE BERRY.

R. Leaves of partridge berry at will  
 Water sufficient  
 Distil, and collect the oil that passes.

*Coxe.*

Principally used to flavor mixtures, &c. In large doses, is poisonous. Dissolved in diluted alcohol, is in common use as a carminative and stimulant.

### PARTRIDGE BERRY WATER.

R. Oil of partridge berry sixteen drops  
 Carbonate of magnesia one drachm  
 Water one pint  
 Triturate the oil, magnesia, and a little of the water together, then add the rest of the water, and filter.

## GENTIANA. GENTIAN.

The roots of several species of gentian are used in medicine; but that which is most generally recognized as officinal, is *Gentiana lutea*, a tall, perennial plant, native of the mountains of Europe.

*Ser. Syst.* Pentand. digyn. *Nat. Syst.* Gentianaceae.

*Linn. Sp. Pl.* 329. *Griffith, Med. Bot.* 460.

The root is of a grayish brown externally, and yellowish within; it has a slightly sweetish, but extremely bitter taste, and a faint, but peculiar odor. It is a pure and simple bitter tonic, with no astringency. The dose of the powder is from ten to forty grains, but is seldom given in this form.

### COMPOUND POWDER OF GENTIAN.

R. Powdered gentian  
 cascarilla  
 orange peel, each,  
 one drachm

Peppermint sugar three drachms  
 Mix. Dose, thirty grains, several times  
 a-day, as a stomachic. *Augustin.*

### EXTRACT OF GENTIAN.

R. Gentian, in coarse powder, one pound  
 Water sufficient  
 Exhaust the powder by means of displacement. Heat the filtered liquid, strain, and evaporate to proper consistence.

*U. S. Ph.*

Dose, ten to thirty grains, as a tonic; also as a basis for various metallic pills.

### COMPOUND GENTIAN PILLS.

R. Powdered aloes one drachm  
 Extract of gentian half a drachm  
 Oil of caraway ten drops  
 Syrup sufficient  
 Beat into mass, and form pills of four grains. Two or three for a dose, as a purgative. *Ellis.*

R. Extract of gentian  
 Powdered rhubarb  
 Soap equal parts  
 Water sufficient

Beat into mass, and form four-grain pills.  
 Tonic and laxative. *Fulla Dispens.*

### PILLS OF GENTIAN AND AMMONIA.

R. Extract of gentian  
 Carbonate of ammonia, each,  
 Mix, and make twenty-four pills. Two to be taken twice or thrice a-day. For heart-burn in gouty habits. *Steph. and Church.*

### INFUSION OF GENTIAN.

R. Contused gentian two drachms  
 Boiling water one pint  
 Infuse for twelve hours, and strain. *Beral.*

### COMPOUND INFUSION OF GENTIAN.

R. Bruised gentian half an ounce  
 orange peel  
 coriander, each, one drachm  
 Diluted alcohol four fl. ounces  
 Water twelve fl. ounces  
 Pour on the alcohol, and, in three hours, add the water, macerate for twelve hours, and strain. *U. S. Ph.*

Dose, a fl. ounce, as a tonic.

R. Bruised gentian  
 calamus, each, one ounce  
 Centaury six drachms  
 Rosemary two drachms  
 Boiling water four pints  
 Infuse for twelve hours, and strain. Used as an emmenagogue, in doses of three ounces, twice a-day. *Spielmann.*

## INFUSION OF GENTIAN WITH RHUBARB.

R. Bruised gentian one drachm  
 rhubarb two drachms  
 Boiling water twelve fl. ounces

Macerate for an hour, strain, and add

Carbonate of ammonia two scruples  
 Dose, one to two fl. ounces, in dyspepsia,  
 chronic rheumatism, &c.

*Steph. and Church.*

## MIXTURE OF GENTIAN.

R. Carbonate of magnesia one drachm  
 Infusion of gentian six fl. ounces

Mix. A wineglassful, three times a-day,  
 as an antilithic, where uric acid abounds.

*Brande.*

R. Extract of gentian two drachms  
 Carbonate of potassa two scruples  
 Mint water five fl. ounces  
 Tincture of orange peel five fl. drachms  
 Sugar one ounce

Mix. A spoonful, three times a-day, as a  
 stomachic and carminative.

*Berends.*

## WINE OF GENTIAN.

R. Gentian, coarsely  
 powdered, half an ounce  
 Yellow bark, coarsely  
 powdered, one ounce  
 Orange peel two drachms  
 Canella, in coarse powder, one drachm  
 Proof spirit four fl. ounces and a-half  
 Sherry wine forty-six fl. ounces

Digest the root and barks in the spirit,  
 for twenty-four hours, add wine, digest for  
 seven days, express, strain, and filter.

*Ed. Ph.*

A stomachic bitter, in doses of four to eight fl.  
 drachms.

## SYRUP OF GENTIAN.

R. Gentian, in coarse  
 powder, forty-eight parts  
 Cold water sufficient  
 Syrup fifteen hundred parts

Put the gentian in a displacement appa-  
 ratus, and make a strong infusion, filter  
 this, and add to boiling syrup, of such a  
 consistence, as, after the addition, it will  
 make 30°.

*Tauvel.*

## SYRUP OF EXTRACT OF GENTIAN.

R. Aqueous extract of gen-  
 tian two drachms  
 Water eight fl. ounces  
 Sugar sixteen ounces (av.)

Dissolve the extract in the water, add the  
 sugar, and form a syrup with a gentle heat,  
 and strain.

*W. Procter.*

## TINCTURE OF GENTIAN.

R. Gentian one part

Diluted alcohol four parts

Macerate for six days, and filter. Dose,  
 one to two fl. drachms.

*Cottereau.*

## ACIDULATED TINCTURE OF GENTIAN.

R. Compound tincture of  
 gentian four fl. ounces  
 Elixir of vitriol half fl. drachm

Mix. A teaspoonful, in sugar and water,  
 three or four times a-day.

*Ellis.*

## COMPOUND TINCTURE OF GENTIAN.

R. Bruised gentian two ounces  
 Orange peel one ounce  
 Bruised cardamoms half an ounce  
 Diluted alcohol two pints

Macerate for fourteen days, express, and  
 filter.

*U. S. Ph.*

An excellent bitter tonic, in doses of one fl.  
 drachm.

## AMMONIACAL TINCTURE OF GENTIAN.

R. Bruised gentian one ounce  
 Carbonate of ammonia two drachms  
 Diluted alcohol two pints

Macerate the root in the alcohol, for eight  
 days, filter, and add the ammonia. Dose,  
 one to four fl. drachms, in scrofula.

*Taddei.*

## ALKALINE TINCTURE OF GENTIAN.

R. Bruised gentian one ounce  
 Carbonate of soda three drachms  
 Diluted alcohol two pints

Macerate for eight days, and filter. Used  
 in same cases, and same doses, as the for-  
 mer.

*Guibourt.*

## MIXTURE OF TINCTURE OF GENTIAN.

R. Tincture of gen-  
 tian one fl. ounce and a-half  
 Tincture of rhubarb

cinnamon half fl. ounce  
 opium ten drops

Mix. A dessertspoonful, every hour, in  
 diarrhœa.

*Foy.*

R. Extract of gentian  
 cascarrilla, each,  
 two drachms

Peppermint water four fl. ounces

Mix. In spoonful doses, as a tonic and  
 stomachic.

*St. Marie.*

GENTIAN AND SULPHURIC ACID MIX-  
TURE.

R. Compound infusion of  
 gentian five fl. ounces

Compound tincture of  
 gentian one fl. ounce

Diluted sulphuric acid one fl. drachm

Mix. A tablespoonful, three times a-day,  
 in dyspepsia.

*Brande.*



## GENTIANINA.

## GENTIANIN.

R. Powdered gentian at will  
Macerate in cold ether, and repeat till exhausted; unite the tinctures, and distil; treat the residue several times with cold alcohol, distil the tinctures, evaporate the residue to dryness; mix it with an excess of magnesia, treat with sulphuric ether, then with oxalic acid, then again with the ether, and distil. *Magendie.*

Dose, one to two grains.

## PILLS OF GENTIANIN.

R. Gentianin five grains  
Conserve of roses  
Powdered liquorice, each, sufficient  
Mix, and make six pills.

## SYRUP OF GENTIANIN.

R. Gentianin sixteen grains  
Syrup one pound  
Dissolve, and boil for a short time. Dose,  
half an ounce to an ounce. *Bories.*

## TINCTURE OF GENTIANIN.

R. Gentianin five grains  
Alcohol one ounce  
Mix. Dose, from one to four drachms. *Cadet.*

## GERANIUM.

## CRANESBILL.

This is the root of *Geranium maculatum*, a native, perennial plant, found, in most parts of the country, in woods and shady places.

*Sex. Syst.* Monadelph. decand. *Nat. Syst.* Geraniaceæ.

Linn. Sp. Pl. 955. Griffith, Med. Bot. 209.

The root is in rough pieces, of a dark brown color externally, and flesh-colored within. It is inodorous; the taste is astringent, but not bitter. The dose is from ten to thirty grains, as an astringent, in all cases in which kino or rhatany are found useful.

## DECOCTION OF GERANIUM.

R. Geranium one ounce  
Water one pint and a-half  
Boil down to a pint. Dose, from one to two fl. ounces. *Wood.*

## EXTRACT OF GERANIUM.

R. Bruised geranium root one pound  
Water one gallon  
Boil down to one half, strain, and evaporate to due consistence. This extract is very similar to Rhatany, and may be given in the same cases, and in the same doses.

## GEOFFROYA INERMIS.

## CABBAGE TREE BARK.

The Cabbage Tree is a native of the West India Islands; it is a large tree, having a smooth, gray bark.

*Sex. Syst.* Diadelph. decand. *Nat. Syst.* Fabaceæ.

Linn. Sp. Pl. 1043. Griffith, Med. Bot. 247. (Andira.)

The bark is in long, fibrous pieces, of a brownish ash color externally, and yellowish within; it has a resinous fracture, an unpleasant odor, and a sweetish, mucilaginous, bitterish taste. It is a powerful vermifuge, in doses of a scruple to half a drachm. The best form of administration is the syrup.

## DECOCTION OF CABBAGE TREE BARK.

R. Cabbage tree bark one ounce  
Water two pints  
Boil down to one pint, and strain. Dose,  
one to two fl. ounces. *Ellis.*

## EXTRACT OF CABBAGE TREE BARK.

R. Cabbage tree bark one part  
Water eight parts  
Boil for a quarter of an hour, strain, add four parts of water, boil, and strain; evaporate the united decoctions to a proper consistence. Dose, three grains. *Bely. Ph.*

## MIXTURE OF CABBAGE TREE BARK.

R. Cabbage tree bark half an ounce  
Water six ounces  
Boil for half an hour, strain, and add

Tincture of cabbage tree bark one ounce  
Syrup of orange peel half an ounce  
A tablespoonful, morning and evening. *Niemann.*

## GEUM.

## AVENS.

## 1. GEUM RIVALE.

## WATER AVENS.

This plant is a native of Europe and the United States, in wet, boggy situations.

*Sex. Syst.* Icosand. polyg. *Nat. Syst.* Rosaceæ.

Linn. Sp. Pl. 717. English Bot. 1. 106.

Root reddish or purplish, hard and brittle, inodorous, of an astringent, bitterish taste. It is tonic and astringent, and has been used advantageously in passive hemorrhages, leucorrhœa, &c. The dose, in powder, is from a scruple to a drachm, three times a-day.

## DECOCTION OF WATER AVENS.

R. Water avens root one ounce



Water one pint and a-half  
Boil down to a pint, and strain, to be given  
in doses of one or two fl. ounces.

## 2. GEUM VIRGINIANUM.

### WHITE AVENS.

Also a native of the United States, growing  
in woods and along streams. Flower small and  
white.

Linn. Sp. Pl. 719. Griffith, Med. Bot. 279.

The root is of a brown color, somewhat ara-  
matic, and of a bitterish, astringent taste. It has  
the same properties as the *G. rivale*, and is given  
in the same cases and doses.

## 3. GEUM URBANUM.

### AVENS.

A native of Europe, growing in woods and  
waste places. They are small, and of a yellow  
color.

Linn. Sp. Pl. 716. Eng. Bot. t. 1400.

The root consists of a short caudex with many  
long fibres. When fresh, it has somewhat the  
odor of cloves, but when dry, is almost inodor-  
ous. The taste is bitter and astringent. Like  
the other species, it is tonic and astringent.

### COMPOUND POWDER OF AVENS.

R. Powdered avens root  
gum Arabic, each, three  
drachms

kino  
cinnamon, each, one drachm  
sugar half an ounce

Mix. A teaspoonful, every two or three  
hours, in diarrhoea. Vogel.

### MIXTURE OF AVENS.

R. Bruised avens one ounce  
Water twelve fl. ounces

Boil to eight ounces, and to the strained  
cold decoction, add

Extract of avens two drachms  
Sulphur ether one drachm

Mix. Two spoonfuls, every two hours.  
As a febrifuge. Radius.

## GILLENIA.

### INDIAN PHYSIC.

This is the root of *Gillenia trifoliata*, a native  
herbaceous plant, found in most parts of the  
country, in shady, and rather marsh situations.

Ser. Syst. Icosand. pentag. Nat. Syst. Rosa-  
ceæ.

Möench. Sp. Pl. 286. Griffith, Med. Bot. 282.

The roots are about as thick as a quill, wrin-  
kled longitudinally, and irregularly undulated; a  
light brown color, and consisting of a thick cor-  
tical portion, and a slender ligneous centre. The

bark is of a disagreeable, bitter taste. It is a  
mild and certain emetic, and forms a good sub-  
stitute for ipecacuanha. The dose, from twenty  
to thirty grains, to be repeated in half an hour,  
if it does not produce the desired effect.

## GLYCERINUM.

### GLYCERIN

Is a fatty body, which may be obtained by  
the saponification of olive oil, in making lead  
plaster. The water in which the plaster is ma-  
laxated, dissolves the glycerin, having a little  
lead in solution. This water is to be evaporat-  
ed till of a syrupy consistence, sulphuretted hy-  
drogen passed through to separate the lead,  
heated, to expel any excess of gas, digested with  
animal charcoal, filtered, and evaporated in va-  
cuo, at a temperature of 150° F. In a pure state  
it is a nearly colorless, viscid fluid, and is un-  
crystallizable.

It has been used with success in lotions,  
poultices, baths, &c., to render them emollient  
and soothing; in diseases of the skin, as pityria-  
sis, impetigo, chapped hands, nipples, face, &c.

### OINTMENT OF GLYCERIN.

R. Glycerin one fl. drachm  
Borax ten grains  
Rose water seven fl. drachms  
Mix. Used as a lotion in lichen, three  
times a-day; also in chapped hands.  
Clymer.

## GLYCYRRHIZA.

### LIQUORICE ROOT.

Several species of this genus have sweet and  
demulcent roots, but the only official species is  
the *G. glabra*, a native of the south of Europe,  
and of some parts of Asia and Africa, and also  
successfully cultivated in more northern regions.

Ser. Syst. Diadelp. decand. Nat. Syst. Fab-  
acæ.

Linn. Sp. Pl. 1046. Griffith, Med. Bot. 236.

The root is in long pieces of various thick-  
nesses, of a grayish-brown color externally, and  
yellowish within; it is inodorous, and of a  
sweet, mucilaginous taste, with a slight degree  
of acidity. It is an excellent demulcent, and is  
much used in affections of the mucous mem-  
branes, and as an addition to the more irritating  
or nauseous remedies, to abate their acrimony  
or conceal their taste.

### EXTRACT OF LIQUORICE.

R. Liquorice root,  
sliced, two pounds and a-half  
Boiling distilled water two gallons  
Macerate for twenty-four hours, boil down  
to a gallon, strain, evaporate to proper con-  
sistence. Lond. Ph.

### REFINED LIQUORICE.

R. Crude liquorice at will  
Dissolve in water, strain, and evaporate.

See Standard formula Book  
ing. Sept 1850. p. 81

These two articles are useful demulcents, and additions to cough mixtures.

*U. S. Disp.*

#### LIQUORICE PASTE.

R. Extract of liquorice one pound  
Cold water four pints  
Dissolve, strain, and add  
Gum Arabic two pounds  
Sugar one pound  
Evaporate to proper consistence. *Soubeyran.*  
R. Gum Arabic two pounds  
Extract of liquorice nine ounces  
Sugar one pound  
Water sufficient  
Evaporate to consistence of syrup, and add

Powdered orris root  
elecampane, each, half an ounce

Continue to evaporate, then add  
Oil of aniseed two scruples  
*Spielmann.*

#### LOZENGES OF LIQUORICE.

R. Extract of liquorice  
Gum Arabic, each, six ounces  
Sugar one pound  
Dissolve in sufficiency of boiling water, evaporate on water-bath, to proper consistence for lozenges. *Ed. Ph.*

#### LOZENGES OF LIQUORICE AND OPIUM.

R. Powdered opium half an ounce  
liquorice  
gum Arabic  
sugar, each, ten ounces  
Oil of anise two fl. drachms  
Mix the powder well, add the oil of anise, form mass with water, and divide into lozenges of six grains. *U. S. Ph.*

Each lozenge contains one-tenth of a grain of opium.

R. Powdered liquorice  
gum Arabic  
sugar, each, two drachms  
opium six grains  
Oil of anise, four drops

Mix, and with sufficient water form mass, and divide into sixty lozenges. These are known as Dr. Wistar's cough lozenges.

*Ellis.*

Both the above are demulcent and anodyne, and are well suited to allay cough, where opium is permissible.

#### MIXTURE OF LIQUORICE.

R. Powdered liquorice one drachm  
Chamomile water one fl. ounce

Syrup of mallows four fl. ounces  
Mix. In spoonful doses, to allay cough.

*Foy.*

R. Powdered liquorice  
gum Arabic, each, two drachms  
Boiling water four fl. ounces

Mix, and dissolve, then add  
Spirit of nitric ether  
Antimonial wine, each, one fl. drachm  
Tincture of opium forty to fifty drops  
A tablespoonful occasionally, in catarrh. *Ellis.*

R. Powdered liquorice  
gum Arabic, each, two drachms  
Boiling water four fl. ounces

Dissolve, and add  
Antimonial wine two fl. drachms  
Tincture of opium twenty minims  
Mix. A tablespoonful, occasionally.

*U. S. Disp.*

These two mixtures are well known under the name of *Brown mixture.*

#### SYRUP OF LIQUORICE.

R. Liquorice root two ounces  
Maidenhair one ounce  
Hyssop half an ounce  
Water two pints

Infuse for twenty-four hours, boil to one-half, and add to strained decoction

Honey eight ounces  
Sugar sixteen ounces  
Rose water four fl. ounces

Make a syrup. As a cough mixture, in spoonful doses. *Wirtem. Ph.*

## GOSSYPIMUM.

### COTTON

Is the down or hair attached to the seeds of *Gossypium herbaceum*, and other species of the genus. It consists of fine, white filaments, having neither odor nor taste, and is insoluble in water, alcohol, ether, the oils, &c., but is soluble in strong alkaline solutions.

*Sex. Syst.* Monadelph. polyand. *Nat. Syst.* Malvaceæ.

Linn. Sp. Pl. 845. Griffith, Med. Bot. 162.

It is principally used for the fabrication of cloth, but is also employed in medicine, as an application to recent burns and scalds, to erysipelas, and to parts affected with rheumatism. It should be applied in the form of thin sheets. The seeds furnish much oil, and the root is said to be an active emmenagogue.

### DECOCTION OF COTTON ROOT.

R. Inner part of cotton root four ounces  
Water one quart

Boil down to a pint. Said to be as effectual as ergot in promoting uterine contraction. Dose, a wineglassful, every twenty or thirty minutes. *Bouchelle.*

### ETHEREAL SOLUTION OF COTTON. (COLLODION.)

This preparation, which is a solution of gun-cotton in ether, is used as a dressing to wounds; by its evaporation, it unites them closely, preserves them from the action of the air, is impervious to moisture; being transparent, it permits the progress of the wound to be examined, &c.

R. Nitric acid (1.45)  
Sulphuric acid (com-  
mercial), each, one fl. ounce  
Cleaned and bleached  
cotton two drachms  
Saturate the cotton thoroughly, with the  
acids, and macerate for twelve hours.  
Wash the cotton; dry rapidly, by artificial  
heat, in the shade, and dissolve it in  
Sulphuric ether  
(official) one pint and a-half  
*E. Parrish. W. Livermore.*

R. Finely powdered nitrate  
of potash 40 parts, by weight  
Concentrated sul-  
phuric acid 60 " " "  
Carded cotton 2 " " "

Mix the nitre with the sulphuric acid, in a  
porcelain vessel, then add the cotton, and  
agitate the mass for three minutes, by the  
aid of two glass rods. Wash the cotton,  
without first pressing it, in a large quantity  
of water, and when all acidity is removed  
(indicated by litmus paper), press firmly  
in a cloth. Pull it out into a loose mass,  
and dry it in a stove at a moderate heat

Prepared cotton 8 parts, by weight  
Rectified sul-  
phuric ether 125 " " "  
Rectified alcohol 8 " " "

Put the cotton, with the ether, into a well-  
stoppered bottle, and shake the mixture  
for some minutes. Then add the alcohol  
by degrees, and continue to shake, until  
the whole of the liquid acquires a syrupy  
consistency. It may then be passed  
through a cloth, the residue strongly press-  
ed, and the liquid kept in a well-secured  
bottle. *Miahle.*

## GRANATUM.

### POMEGRANATE.

The *Punica granatum*, a small tree, a native  
of, and cultivated in warm climates, and much  
esteemed for its subacid fruit, affords two arti-

cles employed medicinally, the rind of the fruit,  
and the bark of the root.

*Ser. Syst.* Icosand. monog. *Nat. Syst.* Myr-  
taceæ.

Linn. Sp. Pl. 676. Griffith, Med. Bot. 294.

The rind, as found in the shops, is in frag-  
ments of a dry, hard, brittle consistence; of a  
yellowish, or reddish-brown color, inodorous,  
and of an astringent, somewhat bitter taste.  
The bark of the root is in small pieces, of an  
ash-gray or yellowish color, externally, yellow  
within; brittle, with scarcely any odor, and as-  
tringent, but not bitter taste. The rind is a good  
astringent, in doses of ten to thirty grains; and  
the bark of the root, an efficient vermifuge, espe-  
cially in a fresh, or recently dried state.

### DECOCTION OF POMEGRANATE RIND.

R. Pomegranate rind two ounces  
Distilled water a pint and a-half  
Boil down to a pint, and strain. *Lond. Ph.*  
Dose, one fl. ounce. As an astringent.

### GARGLE OF POMEGRANATE RIND.

R. Pomegranate rind half an ounce  
Red roses two drachms  
Boiling water six fl. ounces  
Infuse, strain, and add  
Clarified honey one fl. ounce  
Alum two drachms  
Used as gargle, in inflammation of fauces  
and throat. *Ellis.*

### INJECTION OF POMEGRANATE RIND.

R. Pomegranate rind one part  
Water thirty-two parts  
Boil away one-half. *Beral.*

### DECOCTION OF POMEGRANATE ROOT.

R. Bark of pomegranate root two ounces  
Water one pint and a-half  
Macerate for two hours, and then boil to  
a pint. To be taken in three doses. As  
a vermifuge, in cases of tænia. *Foy.*

### EXTRACT OF POMEGRANATE ROOT.

R. Bark of pomegranate root at will  
Diluted alcohol sufficient  
Macerate for a week, distil off the alcohol,  
and evaporate the residue to proper con-  
sistence. *Soubiran.*

### ELECTUARY OF EXTRACT OF POME- GRANATE ROOT.

R. Extract of pomegranate  
root six drachms  
Gum tragacanth sufficient  
Lemon juice two fl. ounces  
Linden water three fl. ounces

Mix. One-half to be taken, and half an  
hour afterwards the remainder. *Radius.*

### MIXTURE OF EXTRACT OF POME- GRANATE ROOT.

R. Extract of pomegranate  
root six drachms



Lemon juice

Mint water

Linden water, each, two fl. ounces

Mix. One-fourth to be taken, every  
quarter of an hour. *Radiis.*

## BOLUS OF POMEGRANATE ROOT.

R. Powdered bark of pome-  
granate root one drachm

Powdered red Peruvian  
bark two drachms

Balsam copaiba sufficient

Mix, and form twelve boluses. One,  
morning and evening, in chronic mucous  
discharges. *Radiis.*

R. Powdered bark of pome-  
granate root one drachm

Assafetida half a drachm

Oil of croton four drops

Syrup of ether sufficient

Mix, and make fifteen boluses. Five  
a-day, in the treatment of tænia. *Foy.*

## GRATIOLA.

## HEDGE HYSSOP.

Most of the species of this genus have active  
properties, but only one of them has been em-  
ployed in medicine; the *G. officinalis* of Europe;  
a native species, the *G. aurea*, is possessed of  
identical properties, which, in both cases, depend  
on the presence of *veratria*.

*Ser. Syst.* Diand. monog. *Nat. Syst.* Scrophu-  
liacæ.

Linn. Sp. Pl. 24. Griffith, Med. Bot. 518.

The whole plant is used, it is almost inodor-  
ous, but has a bitter, nauseous taste. It is a dras-  
tic cathartic and emetic, with some diuretic pro-  
perties. It has been stated that it forms the  
basis of the *Eau medicinale of Husson*. The  
dose of the powder is from ten to twenty  
grains.

## COMPOUND POWDER OF HEDGE HYSSOP.

R. Powdered hedge hyssop two scruples

Calomel five grains

Assafetida half a drachm

Oil of peppermint three drops

Mix, and divide into two powders. One  
to be taken every three hours, in tænia.

*Augustin.*

## WINE OF HEDGE HYSSOP.

R. Dried herb of hedge hyssop one ounce

Contused root of hedge

hyssop half an ounce

White wine sixteen fl. ounces

Macerate for eight days, with a gentle  
heat, and strain. A teaspoonful, at bed-  
time, drinking after it half a pint of beef  
tea. If necessary, repeat next evening.

*Perkins.*

Said to be the original recipe for the *Eau me-  
dicinale*.

## GUAIAACUM.

## GUAIAACUM.

The *Guaiacum officinale*, a large tree, a native  
of the West Indies and some parts of South  
America, affords two medicinal products, the  
wood and resin, or concrete juice.

*Ser. Syst.* Decand. monog. *Nat. Syst.* Zymo-  
phyllacæ.

Linn. Sp. Pl. 546. Griffith, Med. Bot. 203.

The wood is very hard, of a greenish brown  
color, of a bitterish, somewhat acrid taste, and of  
a faint smell, except when heated. The resin  
is of a greenish or dark olive color, of a feeble  
odor, and of an acrid taste. They both are  
stimulant and alterative, and have been much  
used in chronic rheumatism, gout, obstinate cuta-  
neous affections, amenorrhæa, &c. The dose of  
the resin is from ten to thirty grains.

## DECOCTION OF GUAIAACUM WOOD.

R. Rasped guaiacum wood one ounce

Water one pint and a-half

Boil down to a pint. To be taken in  
divided doses, during the day.

*U. S. Dispens.*

## COMPOUND DECOCTION OF GUAIAACUM

## WOOD.

R. Guaiacum shavings three ounces

Raisins two ounces

Sassafras root, rasped,

Liquorice root, bruised, each, one ounce

Water eight pints

Boil the guaiacum and raisins in the water,  
down to five pints, adding the other ingre-  
dients, towards close of operation. Strain.

*Ed. Ph.*

From one to two pints may be taken, during  
the day, in divided doses, as an alterative in  
chronic rheumatism and cutaneous diseases.

R. Rasped guaiacum wood one ounce

sassafras half an ounce

Contused liquorice root one drachm

Water five pints

Boil for two hours, strain, and add

Cinnamon water three ounces

A wineglassful, several times a-day, as  
alterative, &c. *Augustin.*

R. Rasped guaiacum wood two drachms

Water sufficient

to obtain one pint of strained decoction.

After an hour's boiling, add

Wine of colchicum seed two drachms

A wineglassful every two hours, in chronic  
pains of the joints. *Radiis.*

## EXTRACT OF GUAIAACUM WOOD.

R. Powdered Guaiacum wood at will



Exhaust with boiling water, by means of a displacement apparatus, and evaporate.

*Van. Mons.*

#### OIL OF GUAIAIACUM WOOD.

R. Guaiacum wood at will  
Distil on a sand-bath, separate the oil, and rectify it. Dose, four or five drops, in gonorrhœa, also as a friction in rheumatism.

*Tuddei.*

#### COMPOUND OIL OF GUAIAIACUM.

R. Oil of guaiacum three ounces  
Balsam of Peru one ounce  
Ammoniated alcohol half an ounce  
Mix. In caries of the teeth, and as a dressing to malignant ulcers.

*Swediaur.*

#### COMPOUND POWDER OF GUAIAIACUM.

R. Powdered resin of  
guaiacum two drachms  
Cremor tartar half an ounce  
Sugar six drachms  
Mix. Three teaspoonfuls a-day, in gout.

*Phœbus.*

R. Powdered resin of guaiacum  
nitrate of potassa, each,  
one drachm  
ipeacuanha three grains  
opium two grains

Mix, and divide into six powders. One, every three hours; as a stimulating diaphoretic in acute rheumatism, after reduction of inflammation.

*Ellis.*

#### PILLS OF GUAIAIACUM AND TURPENTINE.

R. Powdered resin of  
guaiacum one drachm  
Venice turpentine sufficient  
Mix, and make fifteen pills. One, three times a-day, in gleet and leucorrhœa.

*Ellis.*

#### PILLS OF GUAIAIACUM, ALOES, &c.

R. Powdered guaiacum resin one drachm  
aloes thirty-six grains  
rhubarb two drachms

Canada balsam sufficient  
Form mass, and divide into forty-eight pills. One, every three hours, as a stimulating cathartic.

*Ellis.*

#### PILLS OF GUAIAIACUM, ANTIMONY, &c.

R. Powdered resin of guaiacum  
Golden sulphuret of  
antimony, each, half a drachm  
Calomel ten grains  
Extract of dandelion sufficient

Form mass, and divide into three-grain pills. Three to four, three times a-day, in painful affections of the joints.

*Hildebrand.*

#### PILLS OF GUAIAIACUM, SULPHUR, &c.

R. Powdered resin of  
guaiacum half an ounce  
Washed sulphur one ounce  
Crude antimony one drachm and a-half  
Extract of blessed thistle sufficient  
Form mass, and make pills of two grains. Ten, three times a-day, in gout, rheumatism, and obstinate cutaneous affections.

*Quarin.*

#### MIXTURE WITH GUAIAIACUM, &c.

R. Powdered resin of  
guaiacum two drachms  
Powdered nitrate of  
potassa one drachm and a-half  
Powdered gum Arabic one drachm  
tartar emetic one grain  
liquorice one scruple

Distilled or mint water eight fl. ounces

Mix. A tablespoonful, three or four times a-day, in rheumatism, &c.

*Ellis.*

#### GUAIAIACUM MIXTURE.

R. Resin of guaiacum three drachms  
Sugar half an ounce  
Gum Arabic mixture half a fl. ounce  
Cinnamon water nineteen fl. ounces  
Rub the resin with the sugar, then with the mixture of gum Arabic, and gradually add the cinnamon water while rubbing.

*Lond. Ph.*

One to three tablespoonfuls, two or three times a-day.

#### MIXTURE OF GUAIAIACUM AND BITTER-SWEET.

R. Powdered resin of  
guaiacum two drachms  
Powdered gum Arabic three drachms  
Extract of bitter sweet three drachms  
Syrup of mallows one fl. ounce  
Distilled water seven fl. ounces  
Mix. A tablespoonful every three hours, in chronic rheumatism.

*Berends.*

#### TINCTURE OF GUAIAIACUM.

R. Powdered resin of  
guaiacum half a pound  
Alcohol two pints  
Macerate for fourteen days, and filter.

*U. S. Ph.*

Dose, one to three fl. drachms, three or four times a-day, in gout and chronic rheumatism; to be given in milk or mucilage.

R. Powdered resin of  
guaiacum four ounces  
Carbonate of soda or  
potassa one drachm and a-half  
Powdered pimento one ounce  
Diluted alcohol one pint

Digest for a few days. Add volatile spirit of ammonia, if required, in proportion of one or two drachms to each four ounces of tincture. Highly praised in idiopathic amenorrhœa, in doses of a teaspoonful, three times a-day, in milk or wine.

*Dewees.*

#### AMMONIATED TINCTURE OF GUAIAIACUM.

R. Powdered resin of  
guaiacum four ounces  
Aromatic spirit of  
ammonia one pint and a-half  
Macerate for fourteen days, and filter.

*U. S. Ph.*

Dose, one to two fl. drachms, two or three times a-day, in chronic rheumatism.

#### AMMONIATED TINCTURE OF GUAIAIACUM AND COPAIBA.

R. Ammoniated tincture of  
guaiacum one fl. ounce  
Copaiba half fl. ounce  
Mix. A teaspoonful, two or three times a-day, in amenorrhœa with general debility.

*Ellis.*

#### AMMONIATED TINCTURE OF GUAIAIACUM AND CAMPHOR.

R. Ammoniated tincture of guaiacum  
Camphorated tincture of  
opium, each, one fl. ounce  
Mix. Two teaspoonfuls every two hours, in misplaced and retrocedent gout. *Ellis.*

#### ODONTALGIC MIXTURE OF GUAIAIACUM.

R. Tincture of guaiacum six fl. drachms  
Oil of valerian one fl. ounce  
Syrup of scurvy grass  
Compound tincture of  
benzoin, each, two fl. drachms  
Tincture of opium one drachm  
Mix. A teaspoonful mixed with hot water, to be held in the mouth, in toothache.

*Carus.*

#### MIXTURE OF TINCTURE OF GUAIAIACUM AND HENBANE.

R. Tincture of guaiacum two fl. drachms  
henbane one fl. drachm  
Mix. Twenty to thirty drops, morning and evening, in spasm of the stomach and neuralgia.

*Radins.*

## H

### HÆMATOXYLON.

#### LOGWOOD.

This is the heart wood of *Hæmatoxylin campechianum*, a middle-sized tree, a native of Campeachy, and naturalized in several of the West Indian islands. It is principally used for tinctorial purposes, but is also employed in medicine.

*Ser. Syst.* Decand. monog. *Nat. Syst.* Fabaceæ.

Linn. Sp. Pl. 549. Griffith, Med Bot. 252.

It comes in logs of a dark color externally, and deep red internally; for medical use, it is chipped or rasped. It has a feeble but peculiar odor, and a sweetish, somewhat astringent taste. It is used as a mild astringent in chronic diseases, and relaxed condition of the bowels.

#### INFUSION OF LOGWOOD.

R. Rasped logwood half an ounce  
Boiling water one pint  
Infuse for two hours, and strain. A tablespoonful every two or three hours, in cholera and diarrhœa of children. *Ellis.*

#### DECOCTION OF LOGWOOD.

R. Rasped logwood one ounce  
Water two pints  
Boil down to a pint, and strain. *U. S. Ph.*

A good astringent in diarrhœa, especially in

children. Dose for an adult, two fl. ounces; for a child about two years of age, two or three fl. drachms, several times a-day.

#### EXTRACT OF LOGWOOD.

R. Rasped logwood one pound  
Water one gallon  
Boil to four pints, strain while hot, then evaporate to proper consistence. *U. S. Ph.*  
Dose, from ten to thirty grains.

#### ELECTUARY OF EXTRACT OF LOGWOOD.

R. Extract of logwood  
liquorice, each, two drachms  
Peruvian bark three drachms  
cascarilla one drachm  
Mucilage of quince sufficient  
Mix. A teaspoonful, three times a-day, in chronic diarrhœa, &c. *Radins.*

#### MIXTURE OF EXTRACT OF LOGWOOD.

R. Extract of logwood three drachms  
Boiling water seven fl. ounces  
Dissolve, strain, and add  
Tincture of cinnamon six fl. drachms  
catechu two fl. drachms  
Mix. Dose, one fl. ounce, every six hours.

*Beasley.*

- R. Extract of logwood three drachms  
 Tincture of catechu two fl. drachms  
 Water seven fl. ounces  
 Mix. Two spoonfuls, every three or four hours. In diarrhoea and dysentery. *Ellis*.  
 R. Extract of logwood three drachms  
 Spirit of cinnamon one fl. ounce and a-half  
 Water seven fl. ounces  
 Tincture of kino two fl. drachms  
 Mix. In the same doses, and in the same diseases, as the last. *Swediaur*.

## HAMAMELIS.

## WITCH HAZEL.

The *Hamamelis Virginica* is a large native shrub, found along streams in most parts of the country, presenting several varieties.

*Sex. Syst.* Tetrand. digyn. *Nat. Syst.* Hamamelidaceæ.

Pursh. Fl. Am. i. 116. Griffith, Med. Bot. 350.

The parts used are the bark and leaves. These are bitter and astringent, leaving a sensation of sweetness. They are considered sedative, astringent and tonic, and useful in bowel affections and hemorrhages, and externally as an application to tumours, painful hemorrhoids, &c. They are used in infusion, decoction, or poultice.

## HEDEOMA.

## PENNYROYAL.

*Hedeoma pulegioides* is a small, annual, aromatic plant, abundant in most parts of the United States, growing in dry, sterile situations.

*Sex. Syst.* Diand. monog. *Sex. Syst.* Lauriaceæ.  
 Persoon. Synop. ii. 131. Griffith, Med. Bot. 508.

The whole plant is used. It has a warm, pungent taste, and a powerful aromatic odor. It is a stimulating aromatic, used to obviate nausea and relieve flatulence, and also, in domestic practice, as an emmenagogue.

## INFUSION OF PENNYROYAL.

- R. Pennyroyal two drachms  
 Boiling water sufficient  
 to afford six ounces of strained infusion.  
 To be taken freely, in a warm state, at bedtime, the feet previously bathed in hot water, in amenorrhœa.

## OIL OF PENNYROYAL.

- R. Pennyroyal at will  
 Water sufficient  
 Distil, and collect the oil. Dose, two to ten drops, in flatulent colic and nausea.

## HELENIUM.

## SNEEZEWORT.

Sneezewort, or *Helenium autumnale*, is an indigenous plant, found in wet situations, in most parts of the United States, flowering in the autumn.

*Sex. Syst.* Syngen. super. *Nat. Syst.* Asteraceæ.  
 Torrey & Gray, Fl. ii. 384. Griffith, Med. Bot. 398.

This plant is almost inodorous, but has a bitter, somewhat pungent, acrid taste. It is tonic, diaphoretic, and powerfully errhine; this latter property is most developed in the flowers, and especially the central florets; these, when powdered, may be used in those cases to which errhines are applicable.

## HELIANTHEMUM.

## FROSTWEED.

The *Helianthemum Canadense* is a native perennial plant, growing in many parts of the United States, in dry, sandy soils.

*Sex. Syst.* Polyand. monog. *Nat. Syst.* Cistaceæ.  
 Mich. Fl. i. 308. Darlington, Fl. Cest. 313.

It has little or no odor, but an astringent, somewhat aromatic, bitterish taste. It is tonic and astringent, and has proved beneficial in scrofula.

## HELLEBORUS.

## BLACK HELLEBORE.

Several species of *Helleborus* are possessed of almost identical medical properties, but the only one used in this country, is *H. nigra*, so called on account of the color of its roots. It is a native of mountain woods, in many parts of Europe, and is cultivated as an ornamental flowering plant.

*Sex. Syst.* Polyand. polyg. *Nat. Syst.* Ranunculaceæ.

Linn. Sp. Pl. 783. Griffith, Med. Bot. 85.

The parts used are the small fibres, or roots, which are about as thick as straw, and black; they proceed from a rhizome or caudex, and have a somewhat nauseous odor, and a bitter, unpleasant, acrid taste. Black hellebore is a drastic hydragogue purgative; having, also, considerable emmenagogue powers. The dose in powder is from ten to twenty grains, as a purge; two or three grains, as an alterative.

## COMPOUND BLACK HELLEBORE PILLS.

- R. Powdered black  
 hellebore fifteen grains  
 Calomel five grains  
 Powdered ipecacuanha three grains  
 Syrup of ginger sufficient  
 Mix, and make four pills. Two to be taken every four hours, in dropsy, till full purgation is caused. *Ainslie*.



## EXTRACT OF BLACK HELLEBORE.

R. Powdered black hellebore at will  
Exhaust by means of the displacement  
process, with cold diluted alcohol. Distil  
off the alcohol, and evaporate to proper  
consistence. *U. S. Ph.*

Dose, ten to fifteen grains, as a drastic purge.

VINO-ALCOHOLIC EXTRACT OF BLACK  
HELLEBORE.

R. Powdered black hellebore two pounds  
Carbonate of potassa half a pound  
Diluted alcohol eight pints  
Macerate for twelve hours, express, and  
pour on the residuum

White wine eight pints  
Digest for twenty-four hours, express, mix  
the two tinctures and evaporate.

*Cottreave.*

Dose, ten to fifteen grains.

COMPOUND PILLS OF EXTRACT OF BLACK  
HELLEBORE.

R. VINO-alcoholic extract of  
black hellebore  
Extract of myrrh, each, two ounces  
Powder of blessed thistle one ounce  
Beat together, and form pills of one grain.  
Ten to twenty a-day, in amenorrhœa,  
dropsy, &c. *Radius.*

These pills are much used in Europe, under  
the name of Bacher's pills.

R. Extract of black hellebore  
Assafetida  
Gum ammoniac  
Soap, each, two drachms  
Rhubarb sufficient  
Beat into mass, and form pills of two  
grains. Dose, ten to twelve, morning and  
evening, as a purgative and emmena-  
gogue. *Augustin.*

## TINCTURE OF BLACK HELLEBORE.

R. Bruised black hellebore four ounces  
Diluted alcohol two pints  
Macerate for fourteen days, express, and  
filter. *U. S. Ph.*

Used as an emmenagogue, in doses of thirty  
drops to a fl. drachm, night and morning, watch-  
ing its action.

MIXTURE WITH TINCTURE OF BLACK  
HELLEBORE.

R. Tincture of black  
hellebore half a fl. ounce  
Tincture of myrrh one fl. ounce  
Spanish flies two fl. drachms

Mix.

Thirty drops, three times a day, in sugar and  
water, as an emmenagogue.

COMPOUND WINE OF BLACK HELLE-  
BORE.

R. Bruised black hellebore one ounce  
wormwood a handful  
White wine four pints  
Macerate for three days, express, and fil-  
ter. Two to three spoonfuls, in the  
morning, fasting. In dropsy. *Brunner.*

## OINTMENT OF BLACK HELLEBORE.

R. Powdered black  
hellebore one to two drachms  
Lard one ounce  
Mix. As an application to obstinate her-  
petic eruptions. *Souberian.*

## HEMIDESMUS.

## INDIAN SARSAPARILLA.

The *H. indicus* is a native of many parts of  
India. It is a climbing plant, and has been  
long used in the East as an efficient medicinal  
agent, but was almost unknown in Europe, or  
this country, until about 1819.

*Ser. Syst.* Pentand. digyn. *Nat. Syst.* Ascle-  
piadaceæ.

Brown, Hort. Kew. ii. 75. Griffiths, Med.  
Bot. 453.

The root, which is the part used, is long, tor-  
tuons, rugose, with longitudinal furrows; it is  
brownish, externally, and has a peculiar and  
somewhat aromatic odor, and a bitterish taste.  
It has the properties of sarsaparilla; and like it,  
is given in infusion, decoction, &c. These are  
made in the same manner as those of sarsa-  
parilla, and given in the same doses, and in simi-  
lar diseases.

## SYRUP OF INDIAN SARSAPARILLA.

R. Indian sarsaparilla half a pound  
Boiling water one pint  
Digest in a covered vessel, with a gentle  
heat, for three or four hours, strain, add  
twice the weight of sugar, and make  
syrup. *Beasley.*

## MIXTURE OF INDIAN SARSAPARILLA.

R. Indian sarsaparilla ten drachms  
Extract of liquorice ten grains  
Distilled water ten fl. ounces  
Digest for twelve hours, strain, heat to  
180°, and again strain. One-third, three  
times a-day. *Beasley.*

R. Syrup of Indian sarsaparilla five ounces  
Solution of potassa half to one fl.  
drachm

Orange-flower water one fl. ounce  
One fl. ounce, thrice a-day, in barley  
water. For gonorrhœa. *Bellinrye.*

## INFUSION OF INDIAN SARSAPARILLA.

R. Indian sarsaparilla two ounces  
Lime water one pint

Infuse in a close vessel for twelve hours.  
Dose, a wineglassful. *Ashburner.*

#### DECOCTION OF INDIAN SARSAPARILLA.

R. Indian sarsaparilla two ounces  
Water one pint and a-half  
Boil down to one pint. To be taken during the day, in wineglassful doses. *Pereira.*

### HEPATICA.

#### LIVERWORT.

The *H. triloba* is a small native plant, found in most parts of the United States, and also in the northern regions of Europe and Asia, having three-lobed leaves, and presenting two marked varieties: one with the lobes of the leaves rounded, the other with them acute.

*Sex. Syst.* Polyand. polyg. *Nat. Syst.* Ranunculacæ.

Torrey & Gray, Fl. i. 14. Griffith, Med. Bot. 81.

The whole herb is used. It is inodorous, and has a mucilaginous, slightly astringent and bitterish taste. It is a very mild, demulcent tonic and astringent, and was much employed at one time as a deobstruent in herpetic affections, and also as a remedy in diseases of the lungs. Its powers, however, are very slight. It is given in infusion; to be taken freely.

### HERACLEUM.

#### MASTERWORT.

This is the root of *Heracleum lanatum*, a very large, perennial plant, found in many parts of the United States, in waste places.

*Sex. Syst.* Pentand. digyn. *Nat. Syst.* Apiacæ.

Torrey & Gray, Fl. i. 632. Griffith, Med. Bot. 335.

The part used is the root; this resembles the parsnip in appearance, but has a rank, unpleasant odor, and a pungent, acrid taste. It is said to be diuretic, expectorant, and antispasmodic, and has proved useful in epilepsy, attended with a disordered condition of the digestive organs. In doses of two or three drachms daily. It is also used in strong decoction, in dyspepsia with flatulence and cardialgia.

### HEUCHERA.

#### ALUM ROOT.

Most of the species of *Heuchera* are possessed of identical properties, but the only one recognized by the U. S. Pharmacopœia is *H. Americana*. This is an indigenous plant, growing in shady, rocky situations, in most parts of the country.

*Sex. Syst.* Pentand. digyn. *Nat. Syst.* Saxifragacæ.

Torrey & Gray, Fl. i. 578. Griffith, Med. Bot. 313.

The root is rugose, irregular, yellowish, almost inodorous, and of a strong, styptic taste. It is a

powerful astringent, and may be employed in such cases as require medicines of this class.

### HORDEUM.

#### BARLEY.

There are several species of *Hordeum*, but those usually cultivated in this country are *H. vulgare* and *H. distichon*, the latter of which is recognized as officinal. The native country of these is unknown, but they have been cultivated from the earliest ages.

*Sex. Syst.* Triand. digyn. *Nat. Syst.* Graminacæ.

Linn. Sp. Pl. 125. Griffith, Med. Bot. 664.

The seeds are used in various forms; in that of meal, malt, pearl barley, &c. They are one of the mildest and least irritating of the cerealia, and are much used in decoction, &c., as a nutritive and demulcent drink.

#### PREPARED BARLEY MEAL.

R. Barley meal at will  
Tie it in a linen or cotton cloth, and boil it for twelve hours, then let it cool, remove the outer crust, and pulverize the centre. A useful diet, boiled with milk, in bowel diseases. *Hanover Ph.*

R. Barley meal twelve ounces  
Sugar four ounces  
Powdered cinnamon half a drachm

Mix, and place in a proper vessel, covering with wheat dough, put in an oven and bake, remove, cool, and pulverize. Half an ounce to two ounces, cooked with water or milk, forms an excellent diet, in debilitated conditions of the system. *Taddei.*

#### BARLEY SUGAR.

R. Decoction of barley a pint and a-half  
Sugar two pounds  
Boil to proper consistence, and form lozenges or rolls. As a demulcent in catarrh. *Giordano.*

#### DECOCTION OF BARLEY.

R. Pearl barley two ounces  
Water four pints and a-half  
Wash the barley in cold water, drain, pour on it half a pint of the water, boil for a short time, drain off this water, add the remainder in a boiling state, and boil down to one-half, and strain. *U. S. Ph.*

As a nutritive and demulcent drink in febrile and inflammatory diseases.

#### COMPOUND DECOCTION OF BARLEY.

R. Decoction of barley two pints  
Sliced figs two ounces and a-half  
liquorice root five drachms  
Stoned raisins two ounces and a-half

Water one pint  
 Mix, and boil down to two pints, and strain.  
*Lond. Ph.*

A demulcent, nutritive, and somewhat laxative drink.

#### BARLEY WATER WITH NITRATE OF POTASSA.

R. Decoction of barley one pint  
 Nitrate of potassa two drachms  
 Lemon juice one fl. ounce  
 Mix. To be used warm as a diaphoretic drink.  
*Ellis.*

### HUMULUS.

#### HOPS.

By this is meant the strobiles of the *Humulus lupulus*, a climbing vine, a native of Europe, and probably of this country. It is extensively cultivated for its aments or strobiles, which are largely employed in the preparation of malt liquors, and also in medicine.

*Sex. Syst.* Diœc. pentand. *Nat. Syst.* Cannabaceæ.

*Linn. Sp. Pl.* 1457. *Griffith, Med. Bot.* 574.

Hops consist of thin, somewhat translucent, leaflike scales, of a greenish yellow color, having, near their base, two small, round, dark seeds. Their odor is strong and peculiar, somewhat narcotic, and fragrant; their taste is bitter, aromatic, and somewhat astringent. These properties depend on a peculiar secretion, called Lupuline (q. v.). Hops are tonic, and slightly narcotic, and are used in various conditions of the system. The dose, in substance, is from half a drachm to a drachm, but it is seldom administered in this form.

#### INFUSION OF HOPS.

R. Hops half an ounce  
 Boiling water one pint  
 Macerate for two hours in a covered vessel, and strain.  
*U. S. Ph.*

Dose, one to two fl. ounces, in dyspepsia, nervous tremors, &c.

#### EXTRACT OF HOPS.

R. Hops at will  
 Diluted alcohol sufficient  
 Treat in a displacement apparatus, distil off the alcohol, and evaporate the residue.  
 Dose, from ten to thirty grains. *Cottureau.*

#### HOP MIXTURE.

R. Extract of hops two drachms  
 Water of hops seven fl. ounces  
 Tincture of hops half fl. ounce  
 Syrup of orange peel one fl. ounce  
 Mix. A tablespoonful every hour, as a tonic and stomachic.  
*Niemann.*

#### TINCTURE OF HOPS.

R. Hops five ounces  
 Diluted alcohol two pints

Macerate for fourteen days, express, and filter.  
*U. S. Ph.*

Dose, from one to three fl. drachms, as a tonic, and narcotic, especially in the wakefulness and tremors of drunkards.

#### ALKALINE TINCTURE OF HOPS.

R. Hops  
 Centaury, each, one ounce  
 Peel of bitter orange two drachms  
 Carbonate of potassa one scruple  
 Diluted alcohol eighteen fl. ounces  
 Macerate for eight days, express, and filter. Dose, half an ounce to an ounce.

#### CATAPLASM OF HOPS.

R. Hops one pound  
 Flaxseed meal two ounces  
 Beer sufficient  
 Mix. As an application to bruises and indolent tumors.  
*Radiis.*

#### OINTMENT OF HOPS.

R. Hops two ounces  
 Lard ten ounces  
 Digest for some hours by a gentle heat, express, and strain; recommended to relieve the pain of cancerous sores.  
*Swediaur.*

### HYDRARGYRUM.

#### MERCURY.

Mercury is a brilliant, silver-white, fluid metal, having neither taste nor smell. It becomes solid at 39°, and boils at 656°. Mercury, in masses, does not appear to act on the system, but when in a state of great division, it produces marked and peculiar effects. It acts as an alterative, deobstruent, sialagogue, &c. It has been employed in almost all diseases, in some of its preparations, each of which has some peculiarity of action.

#### PURIFIED MERCURY.

R. Mercury six parts  
 Distil off four parts, very slowly.  
*Dub. Ph.*

#### MERCURY WITH ANTIMONY.

R. Mercury four parts  
 Crude antimony three parts  
 Sulphur two parts  
 Triturate together till the mercury disappears. As a diaphoretic and alterative.  
 Dose, one to four grains. *Giordano.*

This preparation is much used in France and Germany, under the name of antimonial ethiops.

#### COMPOUND MERCURIAL POWDER.

R. Powdered resin of  
 guaiacum one drachm  
 Mercury with antimony  
 Magnesia, each, one scruple



Mix. To be taken in two days, in divided doses, in chronic exanthematous affections. *Hufeland.*

R. Mercury with anti-  
mony twenty-four grains  
Subcarbonate of soda eighteen grains  
Powdered sassafras  
Sugar, each, one drachm  
Mix, and divide into six powders. One to be taken daily, in chronic diseases of the skin. *Sundelin.*

#### PILLS OF MERCURY AND ANTIMONY.

R. Mercury one drachm  
Crude antimony four scruples  
Flowers of sulphur two scruples  
Extract of opium one scruple  
Triturate till mercury disappears, with  
Syrup of mallows sufficient  
Divide into one hundred and fifty pills.  
Dose, five or six a-day. Highly spoken of by Huxham, in venereal pains, scrofula, &c. *Baldinger.*

R. Mercury with antimony one drachm  
Extract of hemlock two drachms  
Soap half an ounce  
Galbanum  
Extract of ox gall, each, half a drachm  
Beat into mass, and form pills of two grains. Dose, eight to ten, three times a-day, in scirrhus of the pylorus. *Radius.*

#### MERCURY WITH CHALK.

R. Mercury three ounces  
Prepared chalk five ounces  
Rub together till all the globules disappear. *U. S. Ph.*

A mild preparation, well suited as an alterative in complaints of children. Dose, five grains to half a drachm, twice a-day, for adults, two or three grains for a child.

#### MERCURY AND CHALK.

R. Mercury three ounces  
Resin six drachms  
Prepared chalk five ounces  
Alcohol sufficient  
Make a paste with the resin, and a small quantity of the alcohol; then add the mercury, which may be extinguished in a short time; add the chalk and alcohol gradually, so as to keep up the pasty consistence; then add sufficient alcohol to dissolve out the resin, and wash the powder on a filter, and dry.

*Dr. Stewart, modified by P. Lehman.*

#### MERCURY AND CHALK WITH IPECACUANHA.

R. Mercury with chalk one scruple

Powdered ipecacuanha ten grains  
Mix, and divide into six powders. One, night and morning, in syrup. In dyspepsia with biliary derangement. *Paris.*

#### MERCURY AND CHALK LINIMENT.

R. Mercury  
Prepared chalk, each, half an ounce  
Triturate till globules disappear, and add  
Honey of roses two ounces  
Mix well. As a dressing to venereal ulcers. *Bories.*

#### MERCURY AND GUM.

R. Mercury one part  
Gum Arabic two parts  
Make a mucilage with a quarter of the gum, rub the mercury with it till extinguished, add the remainder of the gum, with as much water as is required, mix well, dry by a gentle heat, and pulverize. *Paris Cod.*

#### PILLS OF MERCURY AND GUM WITH HEMLOCK.

R. Mercury one part  
Gum Arabic two parts  
Syrup of violets four parts  
Triturate till mercury is extinguished, and add  
Extract of hemlock one part  
Powdered liquorice sufficient  
Mix well, and form pills of two grains. Two to four, twice a-day, as alterative. *Plenck.*

#### MERCURIAL MUCILAGE OF GUM ARABIC.

R. Mercury one part  
Gum Arabic two parts  
Water sufficient  
Triturate till the mercury is extinguished. This is a good preparation of mercury; it is given in the dose of two teaspoonfuls, in syrup or mucilage, morning and night, as an alterative or anthelmintic. *Beral.*

#### MERCURIAL GARGLE.

R. Mercury half a drachm  
Gum Arabic three drachms  
Syrup of poppies half an ounce  
Calomel six grains  
Triturate till mercury is extinguished, and add

Decoction of  
clematis twenty-six fl. ounces  
Honey of roses one ounce  
Essence of myrrh one drachm

Mix. As a gargle in syphilitic angina, and ozena. *Plenck.*

#### MERCURIAL LOTION.

R. Mercury one drachm

Gum Arabic four drachms  
 Syrup of poppies sufficient  
 Rub together till globules disappear, and  
 add gradually, constantly rubbing,  
 Boiling milk eight fl. ounces  
 As a lotion in gonorrhœal ophthalmia,  
 ulcers on the penis, and also as a gargle  
 in venereal sore throat. *Plenk.*

#### MERCURY WITH MAGNESIA.

R. Purified mercury  
 Manna, each, two parts  
 Carbonate of magnesia one part  
 Rub the mercury with the manna, adding  
 a little water, till globules disappear; add  
 one-eighth part of the magnesia, still rub-  
 bing, when mixed; then sixteen parts of  
 hot water, and agitate; let sediment sub-  
 side; then decant, and repeat washing, till  
 all the manna is removed; mix the residue  
 with remainder of magnesia, and dry.  
*Dub. Ph.*

A mild mercurial, well suited as an alterative  
 in children, especially when there is constipa-  
 tion. Dose, the same as mercury with chalk.

#### MERCURIAL BLUE PILLS.

R. Mercury one ounce  
 Confection of roses one ounce and a-half  
 Powdered liquorice root half an ounce  
 Rub the mercury with the confection, till  
 all the globules disappear, add the liquorice  
 root, and beat into mass. Divide into four  
 hundred and eighty pills. *U. S. Ph.*

One of the mildest and best of the mercurial  
 preparations. From five to fifteen grains as a  
 purgative; one pill every night, or every other  
 night, as alterative; one pill, two or three times  
 a-day, as an alterative. Each pill contains one  
 grain of mercury.

#### BLUE PILL WITH JALAP.

R. Blue pill  
 Powdered jalap  
 aloes, each, fifteen grains  
 Mix, and form twelve pills; three at night,  
 as a purgative. *Ellis.*

#### BLUE PILL WITH RHUBARB.

R. Blue pill nine grains  
 Powdered rhubarb  
 Bicarbonate of soda, each, twelve grains  
 Aromatic syrup of rhubarb sufficient  
 Beat into mass, and form twelve pills.  
 One, twice or thrice a-day, as an alterative,  
 in hepatic derangement. *Hartshorne.*

#### BLUE PILL WITH COLOCYNTH.

R. Blue pill  
 Extract of colocynth, each, five grains  
 Oil of caraway two drops  
 Mix, and make two pills. A very active  
 purgative. *Ellis.*

#### BLUE PILL AND QUINIA.

R. Blue pill  
 Sulphate of quinia  
 Powdered aloes, each, twelve grains  
 Aromatic syrup of rhubarb sufficient  
 Beat into mass, and form twelve pills.  
 One, twice to four times a-day, as a tonic  
 alterative in deranged condition of liver,  
 consequent to fevers. *Ellis.*

#### COMPOUND MERCURIAL PILLS.

R. Blue pill five grains  
 Powdered ipecacuanha two grains  
 Camphor one grain and a-half  
 Syrup of ginger sufficient  
 Mix, and make two pills. One, morning  
 and evening, in hepatitis, till mouth is  
 affected. *Ainslie.*

R. Blue pill four grains  
 Compound powder of squill six grains  
 Powdered ipecacuanha two grains  
 Syrup of ginger sufficient  
 Mix, and make three pills. To be taken  
 in a day; in hepatic obstruction, threaten-  
 ing dropsy. *Ainslie.*

R. Blue pill  
 Antimonial pow-  
 der, each, two and a-half grains  
 Opium half a grain  
 Syrup of ginger sufficient  
 Make a pill. To be taken at bedtime; in  
 venereal blotches, attended with diarrhœa.  
*Ainslie.*

#### ABERNETHY'S PILL.

R. Blue pill ten grains  
 Powdered jalap twenty grains  
 Syrup of buckthorn sufficient  
 Mix well, and divide into six pills. Two  
 at night, with a wineglassful of infusion  
 of senna, in the morning. *Coolcy.*

#### MERCURIAL MIXTURE.

R. Mercury six drachms  
 Syrup of poppies one ounce  
 Triturate till globules disappear, and add  
 Orange-flower water two fl. ounces  
 Rose water one fl. ounce  
 Mix well. Dose, a spoonful, morning and  
 night, in gastrodynia and spasmodic vomit-  
 ing. *Cadet de Gassicourt.*

#### MERCURIAL OINTMENT.

R. Mercury two pounds  
 Lard twenty-three ounces  
 Suet one ounce  
 Rub the mercury with the suet and a little  
 of the lard, till the globules disappear;  
 add the remainder of the lard, mixing  
 well. *U. S. Ph.*

This is the strong mercurial ointment. It can be weakened by the addition of lard, as may be wished. Used as an inunction to mercurialize the system, by rubbing about a drachm on inside of thighs, twice a-day.

R. Mereury two pounds  
Lard, rendered rancid by exposure in a damp, divided state four ounces  
Lard nineteen ounces  
Suet one ounce  
Triturate the mereury and rancid lard, until the globules disappear, then add the lard and suet, and triturate until the texture of the mass is uniform. *W. Procter.*

#### CAMPHORATED MERCURIAL OINTMENT.

R. Mercurial ointment one ounce  
Camphor one drachm  
Mix. Used like the former; also to disperse indolent swellings.

#### MERCURIAL CATAPLASM.

R. Mercurial ointment half an ounce  
Camphor two drachms  
Boiling milk three ounces  
Crumb of bread sufficient  
Mix, and form cataplasm. *Radius.*

#### MERCURIAL CERATE.

R. Mercurial ointment  
Simple cerate equal parts  
Mix well. As a dressing to venereal ulcers. *Guibourt.*

#### COMPOUND MERCURIAL CERATE.

R. Mercurial ointment  
Soap cerate, each, four ounces  
Camphor one ounce  
Rub well together. *Lond. Ph.*

As an application to disperse indolent swellings.

#### COMPOUND MERCURIAL LINIMENT.

R. Mercurial ointment  
Lard, each, four ounces  
Camphor one ounce  
Rectified spirit one fl. drachm  
Solution of ammonia four fl. ounces  
Rub the camphor with the spirit, then with the lard and mercurial ointment; lastly, add gradually the solution of ammonia, and mix well. *Lond. Ph.*

As a stimulating liniment, in chronic swellings, glandular tumors, &c.

#### OPIATED MERCURIAL LINIMENT.

R. Mercurial ointment four parts  
Oil of sweet almonds forty-eight parts  
Tincture of opium three parts  
Mix well. Advised in inflamed ulcers of the glans penis, to be applied two or three times a-day. *St. Marie.*

#### COMPOUND MERCURIAL OINTMENT.

R. Mercurial ointment two ounces  
Lard twelve ounces  
Powdered stavesacre three ounces  
Melt the lard, and add the other ingredients, mixing well. As an application to destroy lice. *Giordano.*

R. Mild mercurial ointment eight parts  
Soft soap two parts  
Camphor one part  
Rub well together. Recommended in periostitis, and engorgements of the testicles. *Svediaur.*

#### MERCURIAL AND BELLADONNA PLASTER.

R. Mercurial ointment one ounce  
Ammoniac six drachms  
Extract of belladonna four drachms  
Hydrocyanic acid thirty drops  
Make mass with ammoniac, and extract with a little water, mix mercurial ointment and acid, and rub the whole together. Useful as an application to seirrhous and scrofulous tumors. *Med.-Chirurg. Pharm.*

#### OINTMENT OF MERCURY AND BELLADONNA.

R. Strong mercurial ointment thirty parts  
Extract of belladonna four parts  
Opium one part  
Balsam of Peru sufficient  
Mix well, as an application to painful hemorrhoidal tumors. *Mignot.*

#### MERCURIAL PLASTER.

R. Mercury six ounces  
Olive oil  
Resin, each, two ounces  
Lead plaster one pound

Melt the oil and resin together, and, when cool, rub the mercury with them, till the globules disappear; gradually add the lead plaster, previously melted, and mix well.

*U. S. Ph.*

As an application to buboes, venereal nodes, &c.

R. Mercurial ointment one ounce  
Oil of turpentine  
Camphor, each, two drachms  
Simple cerate one ounce  
Mix well. Used as a rubefacient application over the region of the liver, when blisters cannot be used. *Ellis.*

#### HYDRARGYRI ACETAS.

##### ACETATE OF MERCURY.

##### ACETATE OF PROTOXIDE OF MERCURY.

R. Protonitrate of mercury one part



Distilled water six parts  
Dissolve the salt in water, acidified with a little nitric acid, add a solution of acetate of soda or potassa, filter, wash, and dry the precipitate. *Beral.*

#### PILLS OF ACETATE OF MERCURY.

R. Red oxide of mercury one pound  
Distilled vinegar eight pints  
Dissolve, and triturate a pint of this solution with  
Flake manna two pounds  
Rubbing the mixture for a long time, dry before the fire, often stirring; when of a proper consistence, form pills of a grain and a-half. *Guibourt.*

These pills were highly esteemed under the name of *Keyser's pills*. They contain, at first, the acetate of the deutoxide, but this gradually changes to the acetate of the protoxide, then to an oxide; therefore, the following have been substituted.

R. Acetate of mercury  
Flake manna  
Powdered gum Arabic, each, one scruple  
Rose water sufficient  
Beat into mass, and form twenty pills. As a sialagogue, three to be taken at night, or one three times a-day. *Ellis.*

#### PILLS OF ACETATE OF MERCURY AND OPIUM.

R. Acetate of mercury  
Opium  
Camphor, each, thirty grains  
Syrup of poppies sufficient  
Mix, and make thirty pills. *Carmichael.*

#### SOLUTION OF ACETATE OF MERCURY.

R. Acetate of mercury ten or twelve grains  
Rose water five fl. ounces  
Dissolve. As a lotion in obstinate cutaneous affections. *Niemann.*

#### LINIMENT OF ACETATE OF MERCURY.

R. Acetate of mercury one part  
Olive oil two parts  
Lard six parts  
Rub the salt with a little of the lard, and then add gradually the remainder, and then the oil, constantly rubbing. Used as an application in herpes. *Van Mons.*

### HYDRARGYRUM AMMONIATUM.

#### WHITE PRECIPITATE.

R. Corrosive sublimate six ounces  
Distilled water one gallon  
Solution of ammonia eight fl. ounces

Dissolve the corrosive sublimate in the water, with the aid of heat, and when cold add the solution of ammonia, frequently stirring. Wash the precipitate thoroughly, and dry it. *U. S. Ph.*

This is seldom, if ever, used, except as an external remedy. *U. S. Ph.*

#### OINTMENT OF WHITE PRECIPITATE.

R. White precipitate one drachm  
Simple ointment one ounce and a-half  
Soften the ointment over a gentle fire, and mix the white precipitate. *U. S. Ph.*  
As an application to cutaneous eruptions.

### HYDRARGYRI BORAS.

#### BORATE OF MERCURY.

R. Calomel twenty-two parts  
Borate of soda twenty-six parts  
Triturate together; in a quarter of an hour add a little water, then gradually, more constantly rubbing, permit to settle, decant, wash the precipitate till the washings are insipid, and dry. *Van Mons.*

The borate of mercury is said to resemble calomel in its action. Dose, two grains a-day, gradually augmenting.

### HYDRARGYRI BROMIDUM.

#### BROMIDE OF MERCURY.

There are two bromides of mercury; one the protobromide, answering to calomel; the other the bibromide, like corrosive sublimate, an irritant poison.

#### PROTOBROMIDE OF MERCURY.

R. Solution of bromide of potassium at will  
Add a weak solution of protonitrate of mercury, as long as it causes a precipitate; wash this, and dry by a gentle heat. Dose, one grain a-day, gradually increased, as an alterative; in four or five grains as a purgative. *Magendie.*

#### BIBROMIDE OF MERCURY.

R. Bromine  
Mercury, each, equal parts  
Mix, and sublime. Dose, one-twentieth of a grain, gradually increased to a fourth. In syphilis. *Magendie.*

#### ETHEREAL SOLUTION OF BROMIDE OF MERCURY.

R. Bibromide of mercury one grain  
Sulphuric ether one fl. drachm  
Dissolve. Dose, ten to twenty drops, in barley water. In syphilis and lepra. *Werneck.*

HYDRARGYRI CHLORIDUM  
CORROSIVUM.

## CORROSIVE SUBLIMATE.

Corrosive sublimate is a very energetic and poisonous preparation, requiring much care in its exhibition. It will produce the usual effects of the other mercurials, but is less apt to salivate. It is much used in secondary syphilis, and as an alterative, and also as an external application, a stimulant, and escharotic. The best antidote, when poisonous doses have been taken, is albumen, followed by an emetic.

## SOLUTION OF CORROSIVE SUBLIMATE.

R. Corrosive sublimate

Muriate of ammonia, each, ten grains

Distilled water (imp. meas.) one pint  
Dissolve. *Lond. Ph.*

A fl. ounce contains half a grain of the mercurial salt. The dose is from one to four fl. drachms, in some mucilaginous drink.

ALCOHOLIC SOLUTION OF CORROSIVE  
SUBLIMATE.

R. Corrosive sublimate one to two grains  
Diluted alcohol four fl. ounces

Dissolve. A tablespoonful, night and morning, in decoction of sarsaparilla. *Ellis.*

POWDER OF CORROSIVE SUBLIMATE AND  
COPPER.

R. Corrosive sublimate

Sulphate of copper, each, ten grains

Nitrate of silver six grains

Mix. Applied to venereal excrescences, previously moistened with water. *Kruzer.*

POWDER OF CORROSIVE SUBLIMATE AND  
ZINC.

R. Corrosive sublimate

Sulphate of zinc equal parts

Mix. In onychia maligna, sprinkled on the sore, and covered with lint soaked in tincture of myrrh. *Perkins.*

## PILLS OF CORROSIVE SUBLIMATE.

R. Corrosive sublimate five grains

Distilled water thirty to forty drops

Confection of roses one scruple

Powdered liquorice sufficient

Dissolve the corrosive sublimate in the water, and add the other articles, and rub well together. Make forty pills. One, from three to four times a-day, in syphilis.

*Ellis.*

COMPOUND PILLS OF CORROSIVE  
SUBLIMATE.

R. Corrosive sublimate half a grain

Extract of Peruvian bark ten grains

opium half a grain

Powdered Peruvian bark sufficient

Beat together, and make two pills. One,

morning and evening. Each contains a quarter of a grain of the mercurial salt. They require much caution in their use. In syphilis. *Dupuytren.*

R. Corrosive sublimate six grains

Dissolve in

Distilled water sufficient

and add

Extract of hemlock one drachm

Powdered hemlock sufficient

Beat into mass, and make forty-eight pills, to be given like the above. Each pill contains an eighth of a grain of corrosive sublimate. *Ellis.*

## CORROSIVE SUBLIMATE MIXTURE.

R. Corrosive sublimate four grains

Muriate of ammonia eight grains

Diluted alcohol two fl. ounces

Mix. A teaspoonful twice a-day, in barley water, in syphilis. *Ainslie.*

R. Corrosive sublimate eight grains

Muriatic acid twenty-four drops

Comp. tincture carda-

mom eight fl. ounces

Mix. Dose, two drachms, morning and evening, in a wineglassful of sugar and water. In syphilis. *Guibourt.*

R. Corrosive sublimate two grains

Distilled water six fl. ounces

Spirit of cinnamon

Syrup, each, one fl. ounce

Mix. One or two spoonfuls, twice or thrice a-day, in venereal cases. *Ellis.*

## LOTION OF CORROSIVE SUBLIMATE.

R. Corrosive sublimate three to six grains

Distilled water sufficient

Dissolve, and add

Extract of hemlock

chamomile, each,

two drachms

Tincture of opium one fl. drachm

Honey of roses one ounce

Mix. As an application to venereal ulcers, in the throat, and on the labia pudendi.

*Rust.*

R. Corrosive sublimate one drachm

Distilled water six fl. ounces

Dissolve, and add

Muriate of ammonia two drachms

Nitrate of potassa half an ounce

Dissolve. As a wash in itch. *Good.*

COSMETIC LOTION WITH CORROSIVE SUB-  
LIMATE.

R. Blanched sweet almonds one ounce

bitter almonds four drachms

Cherry water ten fl. ounces

Make an emulsion, and add

Corrosive sublimate                      six grains  
Tincture of benzoin                    six fl. drachms  
Lemon juice                                four fl. drachms

Mix. As a wash for eruptions on the face, to be used morning and evening, previously to be shaken. It must be used with caution.

*Cadet de Gassicourt.*

#### LOTION OF CORROSIVE SUBLIMATE AND COPPER.

R. Corrosive sublimate                    two grains  
Acetate of copper                        six grains  
Distilled water                            two pints  
Dissolve. As a wash in obstinate porrigo.

*Augustin.*

#### LOTION OF CORROSIVE SUBLIMATE AND CAMPHOR.

R. Corrosive sublimate                    half a drachm  
Camphor                                    one drachm  
Diluted alcohol                            one ounce  
Dissolve. As an application to destroy condylomata.

*Phæbus.*

#### BATEMAN'S MERCURIAL LOTION.

R. Corrosive sublimate                    two grains  
Compound spirit of  
lavender                                    one fl. ounce  
Distilled water                            four fl. ounces  
Dissolve. As a lotion in obstinate cutaneous eruptions.

*Bateman.*

#### ANTACRID TINCTURE.

R. Powdered resin of guaiacum  
Canada balsam, each,                    one ounce  
Corrosive sublimate                    one scruple  
Oil of sassafras                        two fl. drachms  
Alcohol                                    eight fl. ounces

Dissolve the mercurial salt in one-half the alcohol, and then add the remainder, and the other ingredients; after a due digestion, filter. Ten to twenty drops, morning and evening, in wine or water, in syphilis.

*Ellis.*

#### COLLYRIUM OF CORROSIVE SUBLIMATE.

R. Corrosive sublimate                    two grains  
Opium                                        ten grains  
Rose water                                four fl. ounces

Dissolve, and add

Mucilage of quince seeds half an ounce  
Mix.

*Van Mons.*

#### INJECTION OF CORROSIVE SUBLIMATE.

R. Corrosive sublimate                    three grains  
Water of rosemary  
Distilled water, each,                    three fl. ounces

Dissolve. As an injection in fistula lachrymalis.

*Beer.*

R. Corrosive sublimate                    one drachm  
Alcohol                                    one fl. ounce

Dissolve, add from five to twenty drops to a solution of

Sulphate of zinc                    five to ten grains

In

Water                                    four fl. ounces

A drachm to be injected into the urethra, three times a-day, in gonorrhœa.

*Whately.*

#### YELLOW WASH.

R. Corrosive sublimate one to three grains  
Lime water                                one fl. ounce

Dissolve. *Ellis.*

R. Corrosive sublimate                    one scruple  
Carbonate of potassa                    one drachm

Rub together, and add gradually

Distilled water                            one pint

Mix. *Span. Ph.*

These preparations are employed as lotions to venereal and phagedenic ulcers, and should be shaken up when used.

#### COSMETIC WASH.

R. Blanched bitter almonds            six ounces  
Beef tea                                    sixty-four ounces

Make an emulsion, and add

Corrosive sublimate                    half an ounce  
Lemon juice                                ten ounces

Solution of carbonate of  
potassa                                    half an ounce

Incorporate gradually

White of egg                                six ounces

Strain, and add

Camphor, rubbed with  
mucilage gum Arabic half a drachm

Mix well. It is said to be an effectual wash for eruptions on the face, but must be used with extreme caution, and very seldom.

*Van Mons.*

## HYDRARGYRI CHLORIDUM MITE.

### CALOMEL.

Calomel is prepared by several modes, on the large scale, and is seldom or never made by the apothecary. The several processes will be found, with judicious observations on each, in the U. S. Dispensatory. It is used in almost every disease, either as purgative, alterative, anthelmintic, &c. As a purgative it is peculiar, in not producing effects in proportion to the dose.

#### POWDER OF CALOMEL AND ANTIMONY.

R. Calomel

Golden sulphuret of

antimony                                    equal parts

Triturate together. This powder has been much celebrated under the name of *Plummer's Alterative*, as a deobstruent and alterative. The dose is from five to ten



grains a-day, in divided doses. It should be used recently prepared, as in a short time it changes to sulphuret of mercury, and oxide of antimony. *Guilbourt.*

## POWDER OF CALOMEL AND JALAP.

R. Calomel five grains  
Powdered jalap ten grains  
Mix. As a purgative, to be mixed with syrup or molasses. *Ellis.*

R. Calomel three grains  
Powdered jalap  
Sugar, each, ten grains

Mix. Make a powder to be taken at night, or early in the morning, in bilious fevers, and obstructed bowels.

*A. T. Thomson.*

## POWDER OF CALOMEL, ANTIMONY, AND HENBANE.

R. Calomel one grain  
Golden sulphuret of antimony three grains  
Powdered extract of henbane one grain  
Powdered sugar half a drachm

Mix. To be taken night and morning, in spasmodic diseases; is said to have proved very useful in nyctalopia. *Phæbus.*

## POWDER OF CALOMEL, JALAP, AND RHUBARB.

R. Calomel  
Powdered jalap  
rhubarb, each, five grains  
Oil of cinnamon one drop  
Mix. As a purgative, to be given in syrup or molasses. *Ellis.*

## POWDER OF CALOMEL AND FOXGLOVE.

R. Calomel three grains  
Powdered foxglove four grains  
Sugar one drachm  
Mix, and divide into twelve powders. Two a-day, in chronic hydrocephalus.

*Berends.*

## POWDER OF CALOMEL, NITRATE OF POTASSA, &amp;c.

R. Calomel six grains  
Nitrate of potassa one drachm  
Tartar emetic half a grain  
Mix, and divide into six powders. One, every two hours, as a diaphoretic in febrile affections. *Ellis.*

## POWDER OF CALOMEL AND OPIUM.

R. Calomel sixteen grains  
Powdered opium four grains  
ipeacuanha eight grains  
Mix, and divide into eight powders. One,

to be taken every hour or two. In dysentery. *Chapman.*

## POWDER OF CALOMEL AND GAMBOGE.

R. Calomel five grains  
Powdered gamboge six to ten grains  
Mix. As an anthelmintic. *Ellis.*

R. Calomel  
Powdered gamboge  
jalap  
rhubarb  
cinnamon, each, two drachms

Mix. Dose, five to twenty grains.

*A. T. Thomson.*

## ANTHELMINTIC PURGATIVE.

R. Calomel three grains

Compound powder of scammony twelve grains

Mix. To be taken at once, in cases of lumbrici. *A. T. Thomson.*

## POWDER OF CALOMEL AND PINK ROOT.

R. Calomel four grains  
Powdered pink root ten grains

Mix. To be taken two mornings in succession, also on afternoon of second day, followed by a mild purgative, as an anthelmintic for children over four years of age. *Ellis.*

## DRY COLLYRIUM OF CALOMEL.

R. Calomel  
Powdered sugar, each, half a drachm  
opium ten grains

Mix. To be blown into the eye, in ulcers of the cornea. *Radiis.*

## CALOMEL PILLS.

R. Calomel half an ounce  
Powdered gum Arabic one drachm  
Syrup sufficient

Mix the calomel and gum, then beat with syrup into mass, and divide into two hundred and forty pills. *U. S. Ph.*

A very convenient form to give calomel, whether as purgative, alterative, &c.; each pill contains one grain of calomel.

## PILLS OF CALOMEL, QUINIA, &amp;c.

R. Calomel six grains  
Powdered opium three grains  
Sulphate of quinia twelve grains  
Syrup sufficient

Beat into mass, and form twelve pills. One, night and morning, as an alterative in conditions following bilious fever. *Ellis.*

## PILLS OF CALOMEL AND ACETATE OF LEAD.

R. Acetate of lead half a drachm  
Calomel five grains  
Confection of roses sufficient

Form mass, and divide into ten pills. One to be given every two to four hours, in hematamesis, &c. *Ellis.*

#### PILLS OF CALOMEL AND DANDELION.

R. Calomel four grains  
Extract of dandelion eighteen grains  
Mix. To be taken in a day, in divided doses, in abdominal obstructions. *Brera.*

#### PILLS OF CALOMEL, SQUILL, &c.

R. Plummer's powder twelve grains  
Gum ammoniac two grains  
Extract of dandelion three grains  
Powdered squill half a drachm  
Beat together, and form pills of three grains. Dose, five, three or four times a-day, in engorgements of the abdominal viscera, with anasarca supervening on intermittent fever. *St. Marie.*

#### PILLS OF CALOMEL AND IRON.

R. Calomel  
Golden sulphuret of antimony  
Sulphate of iron  
Myrrh, each, one drachm  
Syrup sufficient  
Beat into mass, and form pills of three grains. Dose, four, morning and evening, in the same cases as above. *Swediaur.*

#### PILLS OF CALOMEL AND CATECHU.

R. Powdered catechu  
Balsam copaiba, each, three drachms  
Calomel one scruple  
Syrup of comfrey sufficient  
Beat into mass, and make one hundred and fifty pills. Four, thrice a-day, in leucorrhoea or gonorrhoea. *St. Marie.*

#### COMPOUND CALOMEL PILLS.

R. Calomel  
Oxysulphuret of antimony, each, two drachms  
Powdered guaiacum resin half an ounce  
Molasses two drachms  
Rub the calomel with the antimony, and then with the other ingredients, till well incorporated. *Lond. Ph.*

These pills are known as *Plummer's pills*, and have been much employed in chronic rheumatism, and obstinate cutaneous affections, especially when there is a syphilitic taint. The dose is from three to six grains, twice a-day.

R. Calomel two scruples  
Precipitated sulphuret of antimony one drachm  
Guaiacum two drachms  
Balsam copaiba sufficient  
Mix, and make sixty pills. Three at

night, in venereal herpes, till mouth is affected; also using frequent tepid baths. *Atmslie.*

#### COMPOUND CATHARTIC PILLS.

R. Powdered compound extract of colocynth half an ounce  
Extract of jalap  
Calomel, each, three drachms  
Gamboge two scruples  
Mix, and with water beat into a mass. To be divided into one hundred and eighty pills. *U. S. Ph.*

As a cathartic or laxative, in cases where there is derangement of the liver. Dose, as a purgative, about ten grains; as a laxative, one of the pills.

#### PILLS OF CALOMEL AND COLOCYNTH.

R. Compound extract of colocynth forty-eight grains  
Calomel one scruple  
Mix, and divide into twenty pills. Two or three will act as a cathartic. *Ellis.*

#### PILLS OF CALOMEL AND ANTIMONY.

R. Calomel ten grains  
Golden sulphuret of antimony one scruple  
Extract of pot marigold  
hemlock, each, two drachms  
Mix, and beat into mass, and form pills of two grains. Dose, five, thrice a-day, in chronic indurations. *Rust.*

R. Calomel six grains  
Kermes mineral twelve grains  
Syrup of elder sufficient  
to make six pills. One every two hours, on the decline of peripneumonia, and in the cough of children arising from worms. *Brera.*

#### PILLS OF CALOMEL AND GUAIACUM.

R. Calomel  
Resin of guaiacum, each, two drachms  
Powdered mallows four ounces  
Syrup sufficient  
Form mass, and make pills of four grains. Dose, four or five a-day, in syphilis. *Alibert.*

#### PILLS OF CALOMEL, JALAP, &c.

R. Calomel  
Resin of jalap  
Compound extract of rhubarb  
Soap equal parts  
Form mass, and make pills of one grain. Dose, ten to twelve grains, as purgative and anthelmintic. *Par. Cod.*

#### PILLS OF CALOMEL AND OPIUM.

R. Calomel two grains  
Opium half a grain

Mix. Thrice a-day, in neuralgia of the face. *Leslie.*

ELECTUARY WITH CALOMEL, &c.

R. Calomel ten grains  
Powdered rhubarb  
    semen contra  
    valerian, each, two drachms  
Conserve of worm-wood one ounce and a-half  
Oxymel of squill sufficient  
Mix. A drachm to half an ounce, in epilepsy, complicated with worms. *Swedjaur.*

CALOMEL OINTMENT.

R. Calomel one drachm  
Rose ointment three drachms  
Mix. As an application in herpes. *Dupuytren.*

R. Calomel one drachm  
Sublimed sulphur two drachms  
Lard one ounce  
Mix well. In obstinate cutaneous affections. *Fouquier.*

OINTMENT OF CALOMEL AND SQUILL.

R. Calomel  
Powdered squill, each, half a drachm  
Lard two drachms  
Oil of roses four drops  
Mix. In chronic swellings of the joints. *Dupuytren.*

OINTMENT OF CALOMEL AND ACETATE OF COPPER.

R. Calomel  
Acetate of copper, each, one scruple  
Lard eleven drachms  
Mix well. As an application in porri. *Cadet de Gassicourt.*

OINTMENT OF CALOMEL, ALUM, &c.

R. Calomel two drachms  
Burnt alum  
White oxide of lead, each, half an ounce  
Oil of turpentine two drachms  
Simple cerate one ounce and a-half  
Mix well. As an application to tinea capitis, to be applied at night, and washed off in the morning. *Ellis.*

CALOMEL AND CAMPHOR OINTMENT.

R. Calomel half a drachm  
Camphor twelve grains  
Lard one ounce  
Mix. As an application in liehen. *Bielt.*

HYDRARGYRI ET QUINIAE CHLORIDUM.

CHLORIDE OF MERCURY AND QUININE.

R. Bichloride of mercury one part  
Muriate of quinine three parts  
Dissolve separately in the smallest quantity of water, and mix the solutions. Collect the precipitate, and dry by a gentle heat. *McDermott.*

PILLS OF CHLORIDE OF MERCURY AND QUININE.

R. Chloride of mercury and quinine fifteen grains  
Opium six grains  
Crumb of bread sufficient  
Mix well, and make thirty pills. One, thrice a-day, to produce salivation. *Hamilton.*

HYDRARGYRI CYANURETUM.

CYANURET OF MERCURY.

R. Ferrocyanuret of iron four ounces  
Red oxide of mercury three ounces  
Distilled water three pounds  
Put the ferrocyanuret of iron and the oxide of mercury, well powdered and mixed, into a glass vessel, and pour on them two pints of the water. Boil, and stir, and if in half an hour a blue color remains, add a small portion of oxide of mercury, and continue boiling until the mixture becomes of a yellowish color; then filter, wash the residue in a pint of distilled water, and again filter; mix the solutions, and evaporate, and crystallize. Purify these by dissolving in distilled water, filtering and evaporating. *U. S. Ph.*

It is given in doses of a sixteenth to an eighth of a grain, in syphilis, chronic inflammation of the thoracic and abdominal organs, &c., and also is employed externally in porri, and other cutaneous affections.

SOLUTION OF CYANURET OF MERCURY.

R. Cyanuret of mercury four grains  
Distilled water eight fl. ounces  
Dose, half a drachm to a drachm. *Chaussier.*

COMPOUND PILLS OF CYANURET OF MERCURY.

R. Cyanuret of mercury six grains  
Opium twelve grains  
Crumb of bread one drachm  
Honey sufficient



Mix, and make ninety-six pills. One, morning and evening. *Guibourt.*

R. Cyanuret of mercury eighteen grains  
Muriate of ammonia  
Extract of aconite, each, three drachms  
box one ounce and a-half  
Oil of anise one scruple  
Beat together, and make four hundred pills. Two, morning and evening. *Cadet.*

#### COMPOUND TINCTURE OF CYANURET OF MERCURY.

R. Cyanuret of mercury eighteen grains  
Water fourteen fl. ounces  
Alcohol ten fl. ounces  
Muriate of ammonia  
Extract of aconite, each, three drachms  
box one ounce and a-half  
Oil of sassafras twenty-four drops  
Dissolve the cyanuret in the water, add the ammonia, extract, and alcohol, let stand for some hours, filter, and add essential oil.

#### GARGLE OF CYANURET OF MERCURY.

R. Cyanuret of mercury ten grains  
Barley water one pint  
Honey of roses one ounce  
Mix. As a gargle. *Brera.*

R. Sarsaparilla half an ounce  
Water sixteen fl. ounces

Boil, and add towards close of operation

Fresh hemlock two drachms

Strain, and add to eight ounces of filtered liquid

Cyanuret of mercury two grains  
As a gargle. *Muller.*

#### OINTMENT OF CYANURET OF MERCURY.

R. Cyanuret of mercury twelve grains  
Lard one ounce

Rub well together. As an application to venereal ulcers. *Foy.*

R. Cyanuret of mercury sixteen grains  
Lard one ounce

Oil of lemon fifteen drops

Rub together. As an application to moist tetter. *Bielt.*

### HYDRARGYRI IODIDUM.

#### IODIDE OF MERCURY.

R. Mercury one ounce  
Iodine five drachms  
Alcohol sufficient

Rub the mercury and iodine together, adding sufficient alcohol to form a soft paste, and continue rubbing till globules disappear. Dry the iodide in the dark,

with a gentle heat, and keep from light, in a well-stopped bottle. *U. S. Ph.*

The dose is about a grain a-day, gradually increased to three or four. Used in scrofula, and serofulous syphilis.

#### POWDER OF IODIDE OF MERCURY.

R. Iodide of mercury one to eight grains  
Magnesia one drachm

Mix. Divide into twelve powders. One, three times a-day. *Radius.*

#### PILLS OF IODIDE OF MERCURY.

R. Iodide of mercury five grains  
Confection of roses sufficient

Mix, and make thirty pills. One, three times a-day. *Ellis.*

R. Iodide of mercury one drachm  
Confection of dog rose three drachms

Powdered ginger one drachm

Beat together. Dose, five to ten grains. *London Ph.*

R. Iodide of mercury one grain  
Extract of juniper twelve grains

Powdered liquorice sufficient

Mix, and make eight pills. Two, morning and evening, gradually increasing to double the number. *Magendie.*

#### COMPOUND PILLS OF IODIDE OF MERCURY.

R. Iodide of mercury six grains  
Extract of opium four grains

Lactucarium twenty-four grains

Extract of guaiacum forty-eight grains

Beat together, and form forty-eight pills.

In syphilis of children; one pill to a child six months old, and two to four at more advanced ages. *Ricord.*

R. Iodide of mercury half a drachm  
Extract of guaiacum one drachm

lettuce two scruples

sarsaparilla sufficient

Mix, and make seventy-two pills. One, and then two daily. *Bielt.*

R. Iodide of mercury  
Extract of lettuce, each, half a drachm

hemlock one drachm

Mix, and make thirty pills. *Ricord.*

R. Iodide of mercury two scruples  
Aloes

Sulphate of iron

Myrrh, each, half a drachm

Oil of savine twenty drops

Mix, and make twenty-four pills. One, thrice a-day, in amenorrhœa. *Barbour.*

#### OINTMENT OF IODIDE OF MERCURY.

R. Iodide of mercury one scruple  
Lard one ounce and a-half

Rub well together. In scrofulous swellings, indolent granular tumors, &c.

*Soubciran.*

R. Iodide of mercury                    one ounce  
White wax                                two ounces  
Lard                                        six ounces

Melt the wax and lard, and stir in the iodide. *Lond. Ph.*

As a dressing to scrofulous ulcers, &c.

R. Iodide of mercury                    six grains  
Acetate of morphia                    eight grains  
Lard                                        one ounce

Rub well together. As an application to obstinate glandular swellings. *Pelletan.*

R. Iodide of mercury                    one drachm  
Soap                                        half a drachm  
Rose water                                two drachms  
Rose ointment                            six drachms  
Mix. *Riecke.*

## HYDRARGYRI IODIDUM RUBRUM.

### RED IODIDE OF MERCURY.

R. Corrosive sublimate                one ounce  
Iodide of potassium                    ten drachms  
Distilled water                        two pints

Dissolve the corrosive sublimate in a pint and a-half, and the iodide in half a pint, of the water, and mix the solutions. Filter, and wash the collected precipitate with distilled water. Dry by a gentle heat, and keep in a well-stopped bottle. *U. S. Ph.*

Much more active than the iodide. Used in the same cases, in doses of a sixteenth, gradually increased to the fourth of a grain.

### PILLS OF RED IODIDE OF MERCURY.

R. Red iodide of mercury                one grain  
Extract of juniper                    twelve grains  
Powdered liquorice                    sufficient  
Mix, and make eight pills. Two, morning and evening. *Guibourt.*

R. Red iodide of mercury                five grains  
Syrup                                        sufficient

Rub well together, and then with Crumb of bread  
Sugar, each,                                sufficient  
to make sixty pills. Two, morning and evening, gradually increasing. *Radius.*

### WASH OF RED IODIDE OF MERCURY.

R. Red iodide of mercury                twelve grains  
Distilled water                        six fl. ounces

Mix. As a lotion to scrofulous ulcers. *Radius.*

### TINCTURE OF RED IODIDE OF MERCURY.

R. Red iodide of mercury                twenty grains

Alcohol (·837) one fl. ounce and a-half  
Dissolve. Dose, ten to twenty drops, in distilled water. Twenty-six drops contain about an eighth of a grain. *Foy.*

### ETHEREAL TINCTURE OF RED IODIDE OF MERCURY.

R. Red iodide of mercury                twenty grains  
Sulphuric ether                        one ounce and a-half  
Dissolve. Rather more powerful than the last, and therefore to be given in smaller doses. *Magendie.*

### OINTMENT OF RED IODIDE OF MERCURY.

R. Prepared like the ointment of the iodide. *Lond. Ph.*

It is more active than the ointment of the iodide.

R. Red iodide of mercury                one scruple  
Lard                                        one ounce and a-half  
Rub well together. As a dressing to obstinate venereal ulcers. *Soubciran.*

R. Red iodide of mercury                fifteen grains  
Lard                                        one ounce  
Essence of bergamot                    twenty drops  
Mix well. As an application to chronic cutaneous affections. *Foy.*

## HYDRARGYRI NITRAS.

### NITRATE OF MERCURY.

### NITRATE OF THE PROTOXIDE OF MERCURY.

R. Mercury                                        equal parts  
Nitric acid                                        equal parts  
Dissolve, with aid of a gentle heat, then boil until a yellow sediment is formed, decant, and permit to crystallize. *Guibourt.*

### PILLS OF PROTONITRATE OF MERCURY.

R. Protonitrate of mercury                ten grains  
Extract of liquorice                    forty grains  
Beat into mass with a little water, and form sixty pills. *Foy.*

### OINTMENT OF NITRATE OF MERCURY.

R. Mercury                                        one ounce  
Nitric acid                                        eleven fl. drachms  
Fresh neat's foot oil                    nine fl. ounces  
Lard                                        three ounces

Dissolve the mercury in the acid, melt the oil and lard together, and when they become thick, on cooling, add the solution, and mix well. *U. S. Ph.*

A stimulant and alterative application, used in most cases diluted with lard. Employed in various skin diseases, &c. It is known under the name of *Citrine ointment*.

OINTMENT OF NITRATE OF MERCURY AND  
 LEAD.

R. Mercury	four parts
Lead	half a part

Dissolve separately in  
Nitric acid  
Then mix with

Oil of almonds	twenty-four parts
Lard	forty-eight parts

First the mercurial and then the saturnine solution, rub well together. *Van Mons.*

Advised by Armstrong in porrigo favosa.

### LINIMENT OF NITRATE OF MERCURY.

R. Ointment of nitrate of  
mercury two ounces and a-half  
Simple cerate seven ounces and a-half  
Olive oil five fl. ounces and a-half  
Mix well. *Beasley.*

R. Ointment of nitrate of mercury  
Almond oil                      equal parts  
Triturate together till perfectly mixed.

HYDRARGYRI OXIDUM NIGRUM.

### BLACK OXIDE OF MERCURY.

R. Calomel  
Potassa, each, four ounces  
Water one pint

Dissolve the potassa in the water, let settle and decant; add the calomel, stirring well till the black oxide is formed, decant, wash the oxide with distilled water, and dry with a gentle heat. *U. S. Ph.*

Alterative, purgative, and sialagogue.

### BLACK WASH.

R. Calomel                                 one drachm  
Lime water                               four fl. ounces  
Mix well. As a lotion to venereal and phagedenic ulcers.                                 *Ellis.*

R. Calomel	half a drachm
Powdered opium	two drachms
Lime water	two fl. ounces
Mix.	As a dressing for chancre. <i>Rust.</i>

### PILLS OF BLACK OXIDE OF MERCURY.

R. Black oxide of mercury      one drachm  
Confection of roses            three drachms  
Powdered chamomile        half a drachm  
Mix. As a substitute for blue pill.

OINTMENT OF BLACK OXIDE OF MERCURY.

R. Black oxide of mercury      one part  
Lard      sixteen parts  
Subject to a temperature of 300° to 320°

for an hour, stirring continually, remove, and stir till cold. As a substitute for mercurial ointment. *Donovan.*

HYDRARGYRI OXIDUM  
RUBRUM.

### RED OXIDE OF MERCURY.

R. Mercury	thirty-six ounces
Nitric acid	fourteen fl. ounces
Water	two pints

Dissolve the mercury with a gentle heat, in the acid and water, evaporate to dryness. Rub to powder, and heat in a shallow vessel, as long as red vapors arise.

R. Purified mercury at will  
Put in an open glass vessel, with narrow  
mouth and broad bottom; expose to heat of  
100°, till converted into red scales.

R. Corrosive sublimate	four ounces
Solution of po-	
tassa	twenty-eight fl. ounces
Distilled water	six pints

Dissolve the corrosive sublimate in the water, and add the solution of potassa. Let settle, decant, wash the precipitate with distilled water, and dry with a gentle heat. *Lond. Ph.*

These preparations are seldom used internally in this country, as they are harsh and uncertain in their operation, but are much employed externally as stimulants and escharotics.

PILLS OF RED OXIDE OF MERCURY.

R. Red oxide of mercury  
Powdered opium, each, one grain  
Oil of cloves two drops  
Mix, and make three pills. One, every  
night for a week, in venereal complaints.  
*Ellis.*

R. Red oxide of mercury	three grains
Acetate of morphia	one grain
Powdered mallow root	
Water, each,	sufficient
Mix, and form twenty pills.	One, morning and evening.
	<i>Radiis.</i>

## POWDER OF RED OXIDE OF MERCURY.

R. Red oxide of mercury  
Burnt alum, each, half a drachm  
Powdered savine two drachms  
As an application to condyloma, whitlow,  
&c. *Phæbus.*

OINTMENT OF RED OXIDE OF MERCURY.

R. Red oxide of mercury, in  
fine powder, one ounce



Simple ointment eight ounces  
 Soften the ointment by a gentle heat, and  
 add oxide of mercury and mix well.  
*U. S. Ph.*

An efficacious, stimulating application to foul  
 and indolent ulcers, psorophthalmia, &c. Where  
 it is too stimulating, dilute with lard.

R. Red oxide of mercury one drachm  
 Venice turpentine one ounce  
 Mix. As an application to indolent ulcers,  
 and also used in itch. *Ellis.*

#### OINTMENT OF RED OXIDE OF MERCURY AND SULPHUR.

R. Red oxide of mercury  
 Mercury, each, one part  
 Precipitated sulphur sixteen parts  
 Triturate till globules disappear, and add  
 Lard thirty-two parts  
 Rub well together. As a friction in the  
 cure of itch. *Swediaur.*

#### BROWN OINTMENT OF RED OXIDE OF MERCURY.

R. Red oxide of mercury one part  
 Basilicon ointment six parts  
 Rub well together. Used in the treatment  
 of indolent venereal ulcers. *Saunders.*

#### OINTMENT OF RED OXIDE OF MERCURY AND TIN.

R. Red oxide of mercury two drachms  
 Amalgam of equal parts of  
 mercury and tin four drachms  
 Rose ointment one ounce  
 Rub well together, and add  
 Oil of peppermint twenty drops  
 Highly spoken of in hemorrhoidal tumors.  
*Cadet de Gassicourt.*

#### OINTMENT OF RED OXIDE OF MERCURY AND CINNABAR.

R. Red oxide of mercury one ounce  
 Cinnabar one drachm  
 Lard one pound  
 Rub well together. Employed in chronic  
 inflammations of the eyelids. *Giordano.*

#### OINTMENT OF RED OXIDE OF MERCURY AND ZINC.

R. Red oxide of mercury one part  
 Sulphate of zinc two parts  
 Lard ninety-six parts  
 Rub well together. In serofulous ophthal-  
 mia, as an application to the edges of the  
 eyelids. *Dupuytren.*

#### OINTMENT OF RED OXIDE OF MERCURY AND LEAD.

R. Red Oxide of mercury  
 Prepared calamine

Burnt alum  
 Acetate of lead, each, one drachm  
 Corrosive sublimate twelve grains  
 Rose ointment one ounce  
 Rub well together. Celebrated in the  
 treatment of herpetic affections. *Guibourt.*

### HYDRARGYRI PHOSPHAS.

#### PHOSPHATE OF MERCURY.

R. Solution of nitrate of mercury at will  
 Add to it a solution of phosphate of soda,  
 as long as any precipitate is formed; de-  
 cant, wash the precipitate well, and dry it.  
*Van Mons.*

This has been highly praised in secondary  
 syphilis. The dose is half a grain to a grain,  
 combined with sugar or some aromatic powder.

#### PILLS OF PHOSPHATE OF MERCURY.

R. Phosphate of mercury nine grains  
 Tartar emetic one grain  
 Opium six grains  
 Conserve of roses sufficient  
 Mix, and make nine pills. One in the  
 evening, at bedtime. *Radius.*

### HYDRARGYRI SULPHAS.

#### SULPHATE OF MERCURY. PERSULPHATE OF MERCURY.

R. Purified mercury  
 Sulphuric acid, each, six parts  
 Nitric acid one part  
 Expose them to heat in a glass vessel, and  
 increase the heat, until the mass becomes  
 white and perfectly dry. *Dub. Ph.*

Not used as a remedy, but serves to form cor-  
 rosive sublimate, calomel, and turpeth mineral.

#### YELLOW SULPHATE OF MERCURY.

R. Persulphate of mercury one part  
 Warm water twenty parts  
 Rub together in an earthenware mor-  
 tar, and pour off the supernatant liquid,  
 wash the yellow powder with warm dis-  
 tilled water, as long as the washings are  
 precipitated by caustic potassa. Dry.  
*Dub. Ph.*

This is alterative, errhine, and emetic. The  
 dose, as an alterative, is from a quarter to half  
 a grain; as an errhine, one grain, mixed with  
 five grains of some bland powder; as an emetic,  
 two to five grains.

#### COMPOUND POWDER OF SULPHATE OF MERCURY.

R. Sulphate of mercury one grain  
 Powdered asara-  
 bacea one drachm and a-half

Mix, and divide into eight powders. One to be used as an errhine, twice a-day; in gutta serena, ozæna, &c. *Ellis.*

#### OINTMENT OF SULPHATE OF MERCURY.

R. Sulphate of mercury one part  
Lard eight parts  
Rub well together. As an application to herpes, porrigo, &c. *Soubeiran.*

R. Sulphate of mercury two drachms  
Chloride of lime three drachms  
Oil of almonds six drachms  
Lard two ounces

Melt together the oil and lard, and mix the two powders. More stimulating than the last. Used in obstinate cutaneous affections. *Chevallier.*

#### HYDRARGYRI SULPHURETUM NIGRUM.

##### BLACK SULPHURET OF MERCURY.

R. Mercury  
Sulphur, each, one pound  
Rub together till all globules disappear. *U. S. Ph.*

Employed as an alterative in cutaneous affections and glandular swellings. Dose, from five to thirty grains, or even more, several times a-day.

##### POWDER OF BLACK SULPHURET OF MERCURY.

R. Black sulphuret of mercury four drachms  
Prepared chalk two ounces  
Powdered amber one ounce

Mix well, and divide into sixty-four powders. One, and afterwards two a-day, in a glass of sugar and water. In scrofulous affections. *St. Marie.*

R. Black sulphuret of mercury  
Prepared oyster shell, each, one drachm

Powdered orange peel half a drachm  
Mix, and make ten powders. Three a-day, as an anthelmintic. *Phæbus.*

##### PILLS OF BLACK SULPHURET OF MERCURY.

R. Black sulphuret of mercury  
Extract of bitter-sweet, each, two drachms  
Powdered mallows sufficient

Mix, and form one hundred and twenty pills. Four to five, three times a-day. In obstinate cutaneous affections. *Radus.*

R. Black sulphuret of mercury one scruple  
Extract of dandelion three drachms

Gum ammoniac two drachms  
Powdered squill half a drachm  
Syrup sufficient

Beat together, and make pills of three grains. Dose, five, thrice a-day. In ascites with engorgement of the abdominal viscera. *St. Marie.*

R. Black sulphuret of mercury half an ounce  
Guaiacum  
Soap, each, two drachms  
Golden sulphuret of antimony two scruples

Extract of horehound sufficient  
Beat together, and form pills of two grains. Ten, morning and evening. In chronic rheumatism. *Baldinger.*

#### HYDRARGYRI SULPHURETUM RUBRUM.

##### RED SULPHURET OF MERCURY.

R. Mercury forty ounces  
Sulphur eight ounces

Melt the sulphur, and mix the mercury with it over the fire. When mass begins to swell, remove from fire, and cover the vessel, to prevent combustion; when cool, powder, and sublime. *U. S. Ph.*

At one time, much used as alterative and anthelmintic, but now seldom employed except for fumigation.

##### POWDER OF RED SULPHURET OF MERCURY.

R. Red sulphuret of mercury half an ounce  
Powdered sugar candy three ounces  
Oil of cinnamon half a drachm

Rub well together. At one time celebrated as cordial, stomachic, and analeptic, in doses of a scruple. *Swediaur.*

##### PILLS OF RED SULPHURET OF MERCURY.

R. Red sulphuret of mercury  
Powdered Virginia snake-root, each, half a drachm  
Syrup sufficient

Mix, and form twelve pills. Two to be taken thrice a-day; alterative and diaphoretic; useful in obstinate cutaneous affections. *Ellis.*

R. Red sulphuret of mercury  
Extract of wormwood  
hemlock, each, one drachm  
Beat together, and form pills of two grains. Dose, seven, morning and evening, in venereal glandular swellings. *Augustin.*

## FUMIGATING POWDER.

- R. Red sulphuret of  
mercury four drachms  
Olibanum two drachms  
Mix. To be thrown on a red hot iron, and  
the diseased parts exposed to the fumes.  
In herpes, and venereal pustules. *Foy.*

## CERATE OF RED SULPHURET OF MERCURY.

- R. Powdered red sulphuret  
of mercury fifteen grains  
Yellow resin half an ounce  
Yellow wax  
Lard, each, half a pound  
Melt the resin, wax, and lard together, and  
add the sulphuret. As a dressing to ill-  
conditioned ulcers. *Swediaur.*

## OINTMENT OF RED SULPHURET OF MERCURY.

- R. Red sulphuret of  
mercury one drachm and a-half  
Muriate of ammonia half a drachm  
Lard two ounces  
Rose water one fl. drachm  
Rub well together. Advised in phthiri-  
asis, to diminish the itching, and to destroy  
the insects. *Radiu.*  
R. Red sulphuret of mercury one drachm  
Camphor one scruple  
Simple cerate one ounce  
Rub well together. In the treatment of  
herpes; to be applied at least twice a-day.  
*Alibert.*

## HYDRARGYRI TARTRAS.

## TARTRATE OF MERCURY.

- R. Black oxide of mercury at will  
Tartaric acid sufficient  
Boil together, in a due proportion of water,  
until the oxide is dissolved; filter, and  
evaporate to the point of crystallization;  
wash the crystals. *Swediaur.*

Dose, one to two grains, twice a-day.

## TARTRATE OF MERCURY AND POTASSA.

- R. Boiling, saturated solution of  
Nitrate of mercury at will  
Add, drop by drop, a boiling saturated solu-  
tion of bitartrate of potassa, as long as a  
precipitate is formed, decant, wash the pre-  
cipitate well with cold water, dissolve in  
boiling water, and set aside to crystallize.  
*Van Mons.*

Dose, one to three grains. Once very cele-  
brated as Pressavin's vegeto-mercurial liquor.

## HIPPOCASTANUM.

## HORSE CHESTNUT.

The horse chestnut, or *Æsculus hippocastanum*,  
is a beautiful and lofty tree, a native of the cen-  
tral parts of Asia, but extensively cultivated in  
Europe, and the United States.

*Sex. Syst.* Heptand. monog. *Nat. Syst.* Sapin-  
daceæ.

*Linn. Sp. Pl.* 488. *Griffith, Med. Bot.* 213.

The part used is the bark; this is light, brittle,  
of a brownish red externally, of a yellow brown  
within. It has a somewhat aromatic odor, and  
an astringent, bitter taste. It is a somewhat ac-  
tive astringent, and has been much praised in  
intermittent fevers. The dose of the powder is  
two to four scruples, every three hours, till an  
ounce and a-half is taken.

COMPOUND POWDER OF HORSE CHEST-  
NUT.

- R. Powdered horse chestnut bark  
willow bark, each, half an  
ounce  
gentian  
calamus  
cloves, each, two drachms  
Mix. *Hufeland.*

## DECOCTION OF HORSE CHESTNUT BARK.

- R. Horse chestnut  
bark one ounce and a-half  
Water thirty fl. ounces  
Boil down to ten ounces, adding towards  
close of operation,  
Liquorice root one drachm  
Strain. A cupful every two hours.  
*Niemann.*

COMPOUND DECOCTION OF HORSE CHEST-  
NUT.

- R. Horse chestnut bark  
Willow bark, each, half an ounce  
Calamus  
Root of water avens, each, two drachms  
Water sixteen fl. ounces  
Boil down to one-half. *Spielmann.*  
R. Horse chestnut  
bark one ounce and a-half  
Water eighteen fl. ounces  
Boil down to one-half, strain, and add  
Sulphuric ether one to two drachms  
Syrup of orange peel one ounce  
Mix. To be used during the apyrexia.  
*Phæbus.*

## EXTRACT OF HORSE CHESTNUT.

- R. Horse chestnut bark at will  
Water sufficient  
Exhaust the bark in a displacement appa-  
ratus, and evaporate to proper consistence.  
Dose, five to fifteen grains. *Van Mons.*



## HYDRASTIS.

## YELLOW ROOT.

This is the root of *Hydrastis Canadensis*, a native plant, more common in the western than in the eastern States. The flowers are yellow and fugacious, and are succeeded by red fruit, resembling raspberries, but not eatable.

*Ser. Syst.* Polyand. polygyn. *Nat. Syst.* Ranunculaceæ.

Linn. Sp. Pl. 784. Griffith, Med. Bot. 82.

The root is contorted, rugose, and of a bright yellow color. It has a strong, somewhat narcotic odor, and a very bitter taste. It is a powerful tonic bitter, and is also used in decoction as a wash in chronic ophthalmia. It is given in powder or decoction.

## HYOSCYAMUS.

## HENBANE.

Several species of *Hyoscyamus* are medicinal, but the only one that is officinal, is the *H. niger*, a native of Europe, and now naturalized in some parts of the United States. It has a lurid appearance, and a rank, unpleasant odor.

*Ser. Syst.* Pentand. monog. *Nat. Syst.* Solanaceæ.

Linn. Sp. Pl. 257. Griffith, Med. Bot. 484.

All parts of the plant are active, but the leaves are generally employed, though the seeds also are officinal. The dried leaves have but little taste or smell. The seeds are small, roundish, somewhat uniform, of a grayish color; of an unpleasant smell, and an oily, somewhat bitter taste. They both owe their properties to an alkaloid, called *hyoscyamia*. They are anodyne and hypnotic, and are used to relieve pain, to procure sleep, and to quiet an excited nervous system. The dose of the powdered leaves is from five to ten grains, of the seeds rather less.

## AQUEOUS EXTRACT OF HENBANE.

R. Henbane leaves one pound  
Bruise them in a stone mortar, adding a little water; express, heat the juice to boiling point, strain, and evaporate.

*U. S. Ph.*

Dose, a grain, twice a-day, gradually increased till the system is affected.

## ALCOHOLIC EXTRACT OF HENBANE.

R. Henbane leaves, in coarse powder one pound  
Diluted alcohol four pints

Moisten the henbane with half a pint of the alcohol, and let stand for twenty-four hours; then put in a displacement apparatus, and exhaust, with the remainder of the alcohol, adding sufficient water at the close, to drive off all the spirit. Distil off the alcohol, and evaporate the residue to proper consistence.

*U. S. Ph.*

Dose, as for the last, and in the same manner.

## COMPOUND POWDER OF HENBANE.

R. Powdered extract of henbane  
Oxide of zinc, each, ten grains  
Magnesia half a drachm  
Sugar of milk two drachms and a-half  
Mix, and divide into ten powders. One every three hours, as a sedative, in nervous attacks.

*Vogler.*

## COMPOUND PILLS OF HENBANE.

R. Extract of henbane  
opium  
belladonna  
hemlock, each, one ounce

Beat together, and form pills of one grain. Said to be useful in neuralgia of the face, in doses of one to six a-day.

*Pierquin.*

R. Extract of henbane half a drachm  
opium two grains

Powdered foxglove

ipeacacuanha, each, five grains

Beat together, and make thirty pills. One every three hours, in whooping-cough.

*Phabus.*

R. Extract of henbane  
valerian

Oxide of zinc equal parts

Beat together, and form pills of three grains. In neuralgia, in doses of one to ten.

*Foy.*

R. Extract of henbane two scruples  
Powdered myrrh one drachm and a-half

squill half a drachm

Distilled water sufficient

Beat together, and make thirty pills. Two, night and morning, in catarrh and phthisis, with debility of the pulmonary organs.

*Paris.*

## PILLS OF HENBANE AND OPIUM.

R. Extract of henbane  
hemlock, each, fifteen grains  
Powdered opium four grains  
Beat into mass, and make ten pills. One at night, as an anodyne.

*Ellis.*

## PILLS OF HENBANE AND IPEACACUANHA.

R. Extract of henbane ten grains  
Powdered ipecacuanha five grains  
Mix, and make ten pills. One, every hour or two, in irritability of the bowels, with flatulence.

*Ellis.*

## INFUSION OF HENBANE.

R. Leaves of henbane half an ounce  
Boiling water one pint  
Infuse. As a lotion to painful ulcers.

*Ellis.*

## COMPOUND INFUSION OF HENBANE.

R. Henbane leaves

Poppy heads  
Mallows, each, one ounce  
Boiling water four pints  
Infuse for an hour, and strain. As a fomentation to painful tumors, &c. *Radiis.*

MIXTURE OF HENBANE.

R. Oil of almonds half an ounce  
Powdered gum Arabic two drachms  
Oil of fennel one drop  
Extract of henbane six grains  
Sugar half an ounce  
Water two fl. ounces  
Rub well together. A spoonful every two hours, in catarrh. *Foy.*

MIXTURE OF HENBANE AND ANTIMONY.

R. Extract of henbane ten grains  
Antimonial wine two fl. drachms  
Dissolve. In hooping-cough, in doses of five to ten drops. *Augustin.*

TINCTURE OF HENBANE.

R. Henbane leaves four ounces  
Diluted alcohol two pints  
Macerate for fourteen days, express, and filter. *U. S. Ph.*  
Dose, a fl. drachm.

ETHERAL TINCTURE OF HENBANE.

R. Henbane leaves one part  
Sulphuric ether six parts  
Macerate for eight days, express, and filter. Dose, ten to twelve drops, three or four times a-day. *Hesse Ph.*

MIXTURE OF HYOSCYAMUS AND SQUILL.

R. Tincture of squill ten drops  
Nitric acid five drops  
Extract of henbane three grains

Water one fl. ounce and a-half  
Mix. In spasmodic asthma; to be repeated every three or four hours. *Bree.*

LINIMENT OF HENBANE.

R. Extract of henbane half a drachm  
White soap two drachms  
Linseed oil six ounces  
Mix. As an embrocation to glandular swellings. *Dupuytren.*

OINTMENT OF HENBANE.

R. Extract of henbane one drachm  
Lard one ounce  
Rub together. As an application to painful hemorrhoids. *Taddei.*

COMPOUND OINTMENT OF HENBANE.

R. Leaves of henbane  
stramonium  
bittersweet  
elder, each, a handful  
Lard two pounds  
Heat together till all moisture is evaporated, and strain. As an application to frost-bites, chilblains, &c. *Spielmann.*  
R. Fresh poplar buds four ounces  
Lard twelve ounces  
Leaves of henbane

poppy  
belladonna  
black nightshade, each, one ounce

Heat together till all moisture is evaporated. As a soothing and anodyne ointment to painful local affections.

*Cottrecau.*

This is much used in Europe, under the name of *Unguentum populeum*.

ICHTHYOCOLLA.

ISINGLASS.

This is the swimming bladder of several kinds of fish. The best, however, is procured from various species of sturgeon, inhabiting the more southern parts of Russia. It is a pure and nutritious gelatine, and is rather employed as food, and in the arts, than in medicine, in which it is only used as the basis of court plaster.

COURT PLASTER.

R. Isinglass one ounce  
Water eight fl. ounces

Macerate for twenty-four hours, and add Alcohol eight fl. ounces  
When perfectly dissolved, brush over strained silk, or sarsnet, several times, alternating with a layer of tincture of Peru or benzoin. *Cottrecau.*

R. Isinglass nine drachms  
Dissolve in water, and add hot filtered mixture of

Alcohol (0.921) twelve fl. ounces  
Tincture of benzoin two fl. ounces  
Apply this to strained silk, till six coats

are given, permitting each to dry before applying another, then brush over twice with a mixture of

Tincture of benzoin      six fl. ounces  
Liquid turpentine      four ounces  
*Virey.*

R. Isinglass      one ounce  
Water      two fl. ounces  
Mix, and allow to stand till the isinglass is quite soft, then add

Rectified spirit three fl. ounces and a-half  
Mixed with

Water      one fl. ounce and a-half  
Expose to heat of water-bath, till dissolved, and apply to oiled silk, nailed to a board, by means of a soft brush; apply four coats. *Liston.*

R. Fasten a piece of fine muslin, linen, or silk, to a flat board, and give it a thin coat of flour paste; over this, when dry, two coats of colorless gelatine are to be applied. Said to be superior to the usual court plaster. *Deschamps.*

#### DIAMOND CEMENT.

R. Isinglass, softened in water, and dissolved in the smallest quantity of diluted alcohol      two ounces  
Ammoniac      ten grains

And whilst still liquid, add

Solution of mastic, made with half a drachm in three drachms of alcohol.  
Stir well together. *Redwood.*

### INDIGUM.

#### INDIGO.

A tinctorial material, obtained from several species of *Indigofera*. It is found in commerce, in the form of small, solid, brittle masses, having scarcely any taste or odor, of a deep blue color, but assuming a coppery lustre when rubbed. It is principally used in the arts, but has also been employed as a remedial agent, in various spasmodic diseases. The dose is about a scruple, two or three times a-day, rapidly increased to a drachm or more.

#### POWDER OF INDIGO.

R. Powdered indigo      half an ounce  
Aromatic powder      half a drachm  
Mix. A teaspoonful, three times a-day, in epilepsy. *Radiis.*

#### ELECTUARY OF INDIGO.

R. Powdered indigo      half an ounce  
Aromatic powder      half a drachm  
Syrup      one fl. ounce  
Mix. To be taken in divided doses, during the day. *Phabus.*

#### PILLS OF INDIGO.

R. Powdered indigo      seventy-five grains  
Assafetida      fifteen grains  
Castor      seven grains  
Mix, and form twenty pills. One, every hour. *Podreca.*

#### SULPHATE OF INDIGO.

R. Indigo (Bengal) in powder four ounces  
Sulphuric acid      twenty-four ounces  
Dissolve, by maceration and agitation, and add water, until the solution measures four pints.

### INULA.

#### ELECAMPANE.

The root of *Inula helenium*, a large herbaceous plant, a native of Europe, and cultivated in gardens in this country, where it has also become naturalized in some places.

*Sec. Syst.* Syngen. super. *Nat. Syst.* Astera-ceæ.

Linn. Sp. Pl. 1236. Griffith, Med. Bot. 397.

The root is thick, fleshy, and branched. As dried and found in the shops, it is in slices of a yellowish gray color, with a peculiar and aromatic odor, and an unpleasant, bitterish taste, with an after sensation of pungency. It is tonic and expectorant, and also acts in some cases as a diuretic and diaphoretic. The dose of the powder is from a scruple to a drachm.

#### DECOCTION OF ELECAMPANE.

R. Elecampane root      half an ounce  
Water      one pint  
Boil. Dose, a fl. ounce, every hour or two. *U. S. Disp.*

#### COMPOUND PILLS OF ELECAMPANE.

R. Extract of elecampane      one drachm  
Powdered foxglove

ipeacacuanha, each, ten grains

Opium      five grains

Beat into mass, and form pills of two grains. One every hour, in chronic catarrh. *Heim.*

#### EXTRACT OF ELECAMPANE.

R. Elecampane root      at will  
Water      sufficient  
Make a concentrated infusion, strain, and evaporate to the proper consistence. Dose, from a scruple to a drachm. *Cottereau.*

#### MIXTURE OF ELECAMPANE.

R. Extract of elecampane      two drachms  
Antimonial wine      one fl. ounce  
Syrup of orange flowers      half a fl. ounce  
Mix. Dose, twenty to thirty drops, every three hours, in asthma and chronic catarrh. *Jahn.*

#### COMPOUND OXYMEL OF ELECAMPANE.

R. Elecampane root      one ounce



Orris root half an ounce  
 Water thirty-six fl. ounces  
 Boil down to two-thirds, strain, and add  
 Honey sixteen ounces  
 Gum ammoniac one ounce  
 Vinegar eight fl. ounces  
 Evaporate to the consistence of honey. A spoonful occasionally, in catarrh and humid asthma. *Spielmann.*

## IODINUM.

### IODINE.

Iodine is an elementary non-metallic body, having many of the properties of chlorine. It exists in many marine vegetables and animals, and also in some mineral bodies and salt springs, but is principally obtained from kelp or the ashes of seaweeds. It is soft, friable, and opaque, of a bluish black color and metallic lustre, and has a strong and penetrating odor and an acrid taste. It is employed as a stimulant or alterant in morbid actions of the absorbent and glandular systems, both externally and internally, and, in over doses, acts as an irritant poison. The dose, in substance, is from the eighth of a grain to a grain.

### PILLS OF IODINE.

R. Iodine six grains  
 Extract of gentian one drachm  
 Mucilage of gum Arabic sufficient  
 Mix, and form twenty-four pills. These are said to be useful in mercurial or scorbutic salivation. *Radius.*

### TINCTURE OF IODINE.

R. Iodine one ounce  
 Alcohol one pint  
 Dissolve. *U. S. Ph.*

Sixteen minims, or thirty-five drops, contain one grain of iodine. Dose, from ten to twenty drops, three times a-day; to be increased.

### SATURATED TINCTURE OF IODINE.

R. Iodine two scruples  
 Alcohol one fl. ounce  
 Compound spirit of lavender two fl. drachms  
 Mix. Five to ten drops, twice a-day, gradually increasing. In amenorrhœa, leucorrhœa, gonorrhœa, &c. *Durand.*

### COMPOUND TINCTURE OF IODINE.

R. Iodine half an ounce  
 Iodide of potassium one ounce  
 Alcohol one pint  
 Mix, and form a tincture. Dose, five to fifteen drops, as may be required. *Ellis.*

### ETHEREAL TINCTURE OF IODINE.

R. Iodine two scruples  
 Sulphuric ether one fl. ounce and a-half  
 Dissolve, and filter. *Magendie.*

R. Iodine six grains  
 Sulphuric ether two fl. drachms  
 Dissolve. Dose, ten drops, two or three times a-day, much diluted. In diseases of the skin or glands. *Ellis.*

### MIXTURE OF IODINE AND IODIDE OF POTASSIUM.

R. Iodine three grains  
 Iodide of potassium six grains  
 Distilled water one fl. ounce  
 Dissolve. Dose, six to twenty drops, thrice a-day, in a draught of cold water. In glandular disease and affections of the mucous membranes. *Morton.*

### BATH WITH IODINE.

For adults. 1 2 3  
 R. Iodide of potassium 231 grs. 308 grs. 370 grs.  
 Iodine 123 " 154 " 184 "  
 Water twenty fl. ounces  
 Dissolve, and add to bath of sixty gallons.

### For children.

R. Iodide of potassium 77 grs. 92 grs. 107 grs.  
 Iodine 38 " 46 " 61 "  
 Water ten fl. ounces  
 Dissolve, and add to bath of sixty gallons. Used in scrofulous affections. *Lugol.*

### SOLUTION OF IODINE.

For internal use. 1 2 3  
 R. Iodine  $\frac{1}{2}$  gr.  $\frac{2}{3}$  gr. 1 gr.  
 Common salt 12 grs. 12 grs. 12 grs.  
 Distilled water one pint  
 For external use.  
 R. Iodine 2 grs. 3 grs. 4 grs.  
 Distilled water one pint  
 As a lotion. *Lugol.*

### LOTION OF IODINE.

R. Tincture of iodine half fl. ounce  
 Iodide of iron twelve grains  
 Chloride of antimony half an ounce  
 Mix. As an application to corns, by means of a camel's hair pencil, after the corn has been pared. *Henderson.*

R. Tincture of iodine one fl. drachm  
 Black drop two fl. drachms  
 Oil of almonds  
 Lime water, each, two fl. ounces  
 Mix carefully. As a lotion for chilblains. *Cadet.*

R. Iodine one to two grains  
 Alcohol one fl. drachm  
 Water one pint  
 Mix. To wash scrofulous ulcers. *Foy.*

### MIXTURE OF IODINE.

R. Tincture of iodine ninety drops

Decoction of Peruvian bark ten fl. ounces  
 Mix. Two spoonfuls, three times a-day.

*Radius.*

R. Tincture of iodine ten drops  
 Water of soapwort four fl. ounces  
 Syrup of orange-flowers one fl. ounce  
 Mix. In spoonful doses. In the treatment of serofulous ulcers.

*Foy.*

## CLYSTER OF IODINE.

R. Gum Arabic four drachms  
 Water six fl. ounces

Dissolve, and add  
 Tincture of iodine five drops  
 In amenorrhœa, dysmenorrhœa, &c.

*Cadet.*

## GARGLE OF IODINE.

R. Tincture of iodine one to two fl. drachms  
 Tincture of opium one fl. drachm  
 Water six fl. ounces  
 Mix. As a gargle, in ulceration of the tonsils.

*Ross.*

## OINTMENT OF IODINE.

R. Iodine one scruple  
 Alcohol twenty minims  
 Lard one ounce  
 Rub the iodine with the alcohol, and then with the lard, till thoroughly mixed.

*U. S. Ph.*

In goitre, serofulous swellings, &c.

R. Iodine one scruple  
 Rose ointment one ounce  
 Mix. To be applied to the tonsils, night and morning, by means of a brush. Not to be used till all inflammation is subdued.

*Cerchiari.*

R. Iodine one part  
 Lard sixteen parts  
 Rub together carefully.

*Guibourt.*

## COMPOUND OINTMENT OF IODINE.

R. Iodine half a drachm  
 Iodide of potassium one drachm  
 Alcohol one fl. drachm  
 Lard two ounces

Rub the iodine and iodide of potassium with the alcohol, and then with the lard, till thoroughly mixed.

*U. S. Ph.*

Used in same cases as the iodine ointment, but is more active.

## IODINE OINTMENT WITH OIL OF TOBACCO.

R. Iodine twelve grains  
 Iodide of potassium four scruples  
 Oil of tobacco fifty drops

Lard two drachms  
 Mix. To relax rigid muscles. *Dover.*

## IODINE OINTMENT AND MERCURY.

R. Mercurial ointment sixteen parts  
 Iodine three parts  
 Mix. In frictions, in ovarian dropsy.

*Radius.*

## LINIMENT OF IODINE.

R. Liniment with opium one fl. ounce  
 Tincture of iodine one fl. drachm  
 Mix.

*Manson.*

## CATAPLASM OF IODINE.

R. Tincture of iodine half fl. ounce  
 Flaxseed meal one ounce  
 Oatmeal three ounces  
 Distilled water sufficient  
 Make a cataplasm. Used as an application to serofulous tumors and goitre.

*Dunglison. N. Rem.*

## IODINE PLASTER.

R. Iodine one drachm  
 Iodide of potassium one scruple  
 Water half a fl. drachm  
 Triturate in a mortar, and add to  
 Burgundy pitch three ounces  
 Wax  
 Suet, each, half an ounce  
 Melted together, and triturate till well mixed.

## IPEACACUANHA.

## IPEACACUANHA.

The root of *Cephalis ippecacuanha*, a small herbaceous plant, a native of Brazil.

*Scr. Syst.* Pentand. monog. *Nat. Syst.* Cinchonaceæ.

Richard, Bull. Med. iv. 92. Griffith, Med. Bot. 357.

This root is about the size of a large quill, of an irregular, twisted shape, apparently formed of small, unequal rings, about a line in height, separated by narrow interstices; when broken, it presents two distinct parts, a thin ligneous centre, and a thick cortical layer of a brownish color, and somewhat resinous appearance, having a herbaceous, sub-acrid, somewhat bitter taste, and nauseous odor. Externally it presents some varieties of color, but is usually brown. It is emetic, and sometimes purgative in full doses, and diaphoretic and expectorant in small, but repeated quantities. As an emetic, the dose is fifteen to twenty grains; as a nauseant, two to four grains; as an expectorant, one to two grains.

## POWDER OF IPEACACUANHA AND OPIUM, DOVER'S POWDER.

R. Ipecacuanha  
 Opium, each, in powder, one drachm  
 Sulphate of potassa one ounce  
 Triturate thoroughly. *U. S. Ph.*

R. Ipecacuanha  
Liquorice root  
Extract of opium, each,  
in powder, one ounce  
Sulphate of potassa  
Nitrate of potassa, each, four ounces  
Triturate well. *Par. Cod.*

This latter formula approaches nearest to the original formula of Dover, but is not superior to the first, now generally used. Dose, five to ten grains, as a diaphoretic.

#### POWDER OF IPECACUANHA AND TARTAR EMETIC.

R. Powdered ipecacuanha one scruple  
Tartar emetic one grain  
Mix. As an emetic, or in divided doses,  
as a nauseant and sudorific. *Ellis.*

#### POWDER OF IPECACUANHA AND RHU- BARB.

R. Powdered ipecacuanha  
rhubarb, each, one scruple  
Mix. As an emeto-cathartic in full doses;  
or tonic alterative, in doses of three or four  
grains. *Beasley.*

#### POWDER OF IPECACUANHA AND MURIATE OF AMMONIA.

R. Powdered ipecacuanha a quarter grain  
Muriate of ammonia twelve grains  
Extract of liquorice  
Sugar of milk, each, six grains  
Mix. To be taken every two hours, as an  
expectorant, on the decline of pneumonia.  
*Kopp.*

#### POWDER OF IPECACUANHA AND ANTI- MONY.

R. Ipecacuanha  
Golden sulphuret of  
antimony, each, one grain  
Camphor three grains  
Gum Arabic one scruple  
Triturate well. To be taken every two  
hours, in deficient expectoration in pneu-  
monia. *Phœbus.*

#### POWDER OF IPECACUANHA AND CARBON- ATE OF SODA.

R. Powdered ipecacuanha  
opium, each, one grain  
Carbonate of soda twelve grains  
Mix, and rub well together. To be taken  
every eight hours, in spasmodic asthma,  
hooping-cough, &c. *A. T. Thomson.*

#### POWDER OF IPECACUANHA AND NITRE.

R. Dover's powder one drachm  
Nitrate one ounce  
Mix. To be taken in divided doses.  
*Beasley.*

R. Powdered ipecacuanha six grains  
nitrate of potassa  
one scruple and a-half  
myrrh twelve grains  
Mix, and divide into four powders; one to  
be taken every four hours. Found useful  
in asthma, and the earlier stages of phthi-  
sis. *A. T. Thomson.*

#### POWDER OF IPECACUANHA AND CALO- MEL.

R. Powdered ipecacuanha six grains  
opium three grains  
Calomel one grain and a-half  
Powdered nitre half a drachm  
Mix, and make six powders. One, every  
three or four hours, as a diaphoretic.  
*Ellis.*

#### POWDER OF IPECACUANHA AND MYRRH.

R. Powdered ipecacuanha six grains  
myrrh twelve grains  
nitre half a drachm  
Mix, and make four powders. One, every  
four hours, as a stimulating expectorant.  
*Paris.*

#### POWDER OF IPECACUANHA AND TRAGA- CANTH.

R. Powdered ipecacuanha five grains  
Compound tragacanth  
powder ten grains  
Mix, make a powder, to be taken every  
four or six hours. Useful at the com-  
mencement of febrile diseases, after clearing  
the stomach and bowels. *A. T. Thomson.*

#### EXTRACT OF IPECACUANHA.

R. Coarsely powdered  
ipecacuanha two parts  
Proof spirit seven parts  
Treat by displacement; distil off the spirit  
and evaporate, on water-bath, to proper  
consistence. *Paris Cod.*

#### BOLUS OF IPECACUANHA.

R. Powdered ipecacuanha two grains  
Conserve of opium one scruple  
Prepared chalk sufficient  
Mix, and make eight boluses. Two, night  
and morning, in dysentery. *St. Marie.*  
R. Powdered ipecacuanha two grains  
Aromatic powder ten grains  
Syrup of cinnamon sufficient  
Mix, and make two boluses. One, in the  
evening, in dyspepsia. *Cadet.*

#### PILLS OF IPECACUANHA AND OPIUM.

R. Dover's powder three parts  
Confection of roses one part  
Mix, and make pills of four grains each.  
*Ed. Ph.*



## COMPOUND PILLS OF IPECACUANHA.

R. Dover's powder three drachms  
Powdered squill  
Gum ammoniac, each, one drachm  
Mucilage sufficient  
Mix, and form mass. Dose, fifteen to twenty grains, as a diaphoretic.

*Lond. Ph.*

## PILLS OF IPECACUANHA AND FOXGLOVE.

R. Powdered ipecacuanha  
foxglove, each, half a drachm  
opium five grains  
Extract of elecampane sufficient  
Mix, and make sixty pills. One, every three hours, in spasmodic asthma. *Heim.*

## PILLS OF IPECACUANHA AND CENTAURY.

R. Powdered ipecacuanha  
Extract of centaurry, each, fifteen grains  
Powdered rhubarb half a drachm  
Mix, and make thirty pills. One, night and morning, in dyspepsia. *Radius.*

## LOZENGES OF IPECACUANHA.

R. Powdered ipecacuanha half an ounce  
sugar fourteen ounces  
Arrow root four ounces  
Mucilage of tragacanth sufficient  
Mix the powders thoroughly, and form into a mass with the mucilage, and divide into lozenges of ten grains each. *U. S. Ph.*

A good expectorant in catarrh. Each contains a quarter of a grain of ipecacuanha.

## LOZENGES OF IPECACUANHA AND CAMPHOR.

R. Powdered ipecacuanha fifteen grains  
camphor  
sugar, each, one drachm  
Mucilage of tragacanth sufficient  
Mix, and make sixty lozenges. *Beasley.*

R. Powdered sugar five hundred parts  
Flake manna one hundred and twenty-five parts  
Powdered ipecacuanha eighteen parts  
Lactucarium eight parts  
Powdered squill four parts  
Mucilage of tragacanth sufficient  
Make into a uniform paste, and divide into lozenges of ten grains. Five or six a-day, in catarrh, &c. *Grunn.*

## CONFECTION OF IPECACUANHA.

R. Powdered ipecacuanha twelve grains  
Flowers of sulphur one scruple  
Powdered orris one drachm  
Syrup of mallows  
Manna, each, two ounces  
Mix. A teaspoonful, two or three times a-day, in whooping-cough. *Bories.*

## DECOCTION OF IPECACUANHA.

R. Bruised ipecacuanha two drachms  
Water twelve ounces  
One-third of the water is to be used at a time, so as to make three decoctions; these are to be united, and should amount to six ounces. Celebrated in dysentery; one-third to be taken at a dose. *Soubeiran.*

## MIXTURE OF IPECACUANHA.

R. Powdered ipecacuanha half a drachm  
Tartar emetic one grain  
Tincture of squill one fl. ounce  
Distilled water seven fl. ounces and a-half  
Mix. Four tablespoonfuls; then two every ten minutes, till vomiting is produced. *Ellis.*

R. Powdered ipecacuanha five grains  
Syrup of poppies one drachm  
Spirit of cinnamon two drachms  
Chalk mixture thirteen drachms  
Mix. As a draught in dysentery. *Hooper.*

R. Powdered ipecacuanha two grains  
Carbonate of soda ten grains  
Syrup of poppies one ounce  
Mint water six ounces  
Mix. In spoonfuls, to check spasmodic vomiting. *St. Marie.*

R. Ipecacuanha one drachm  
Senna two drachms  
Boiling water six fl. ounces  
Infuse for twelve hours, strain, and add  
Oxymel of squills  
Syrup of hyssop, each, one ounce  
Mix. In spoonfuls, in whooping-cough. *Guibourt.*

## SYRUP OF IPECACUANHA.

R. Ipecacuanha, in coarse powder, one ounce  
Diluted alcohol one pint  
Syrup two pints  
Macerate the ipecacuanha in the alcohol for fourteen days, and filter. Evaporate to two fl. ounces, and filter; mix with the syrup, and evaporate on a water-bath to proper consistence. *U. S. Ph.*  
As emetic for children, one to two fl. drachms; as expectorant, five to twenty minims.

## COMPOUND SYRUP OF IPECACUANHA.

R. Ipecacuanha one drachm  
Orris root two drachms  
Red Peruvian bark half an ounce  
Seneca  
Iceland moss, each, two ounces  
Sugar two pounds  
Water sufficient  
Mix, and make a syrup. In spoonful doses, as an expectorant. *Courtois.*

- R. Syrup of ipecacuanha  
 poppies, each, two ounces  
 orange flowers one ounce  
 Oxyssel of squill one ounce and a-half  
 Mix. Two spoonfuls every hour, in hoop-  
 ing cough. *Cadet.*

## WINE OF IPECACUANHA.

- R. Bruised ipecacuanha two ounces  
 Sherry wine two pints  
 Macerate for fourteen days, express, and  
 filter. *U. S. Ph.*

As emetic and diaphoretic. Dose, for an  
 adult, as emetic, one fl. ounce; for a child, one  
 fl. drachm.

## COMPOUND WINE OF IPECACUANHA.

- R. Ipecacuanha four parts  
 Sugar two parts  
 Diluted alcohol twenty-four parts  
 Digest for eight days, and add  
 Sherry wine ninety-six parts  
 Star anise one part  
 Sugar four parts  
 Filter at the end of six days. *Niemann.*

WINE OF IPECACUANHA AND TARTAR  
EMETIC.

- R. Wine of ipecacuanha one fl. ounce  
 Tartar emetic one grain  
 Mix. A teaspoonful, every ten or fifteen  
 minutes, till vomiting is induced. *Ellis.*

## ALKALINE WINE OF IPECACUANHA.

- R. Wine of ipecacuanha forty minims  
 Tincture of opium eight drops  
 Carbonate of soda sixteen grains  
 Syrup two fl. drachms  
 Water fourteen fl. drachms  
 Mix. A teaspoonful, to children, in hoop-  
 ing cough. *Pearson.*

## ELIXIR OF IPECACUANHA.

- R. Powdered ipecacuanha  
 Balsam of tolu, each, half an ounce  
 Flowers of benzoin  
 Opium  
 Saffron, each, two drachms  
 Oil of anise one drachm  
 Camphor two scruples  
 Alcohol two pints  
 Digest, express, and filter. Dose, one to  
 two drachms, as a stimulating sudorific.  
*Cadet.*

## IRIS FLORENTINA.

## FLORENTINE IRIS. ORRIS.

The Florentine Iris is a native of the southern  
 parts of Europe, and affords a root, or rhizome,  
 known as orris root.

*Sex. Syst.* Triand. monog. *Nat. Syst.* Irida-  
 cææ.

*Linn. Sp. Pl.* 55. *Griffith, Med. Bot.* 625.

The rhizome is horizontal, knotty, and frag-  
 rant; in a recent state it is acrid, and somewhat  
 bitter; this acrimony disappears in a great mea-  
 sure on dessication. It is seldom used in medi-  
 cine, but forms an ingredient in numerous tooth-  
 powders, &c.

## DENTIFRICE WITH ORRIS ROOT.

- R. Cream of tartar two ounces  
 Powdered orris root one ounce  
 myrrh  
 kino, each, half an ounce  
 Mix well. *Redwood.*

- R. Powdered Castile soap  
 orris root, each, two ounces  
 cuttlefish bone  
 prepared chalk, each,  
 three ounces  
 Oil of cloves  
 Essence of lemons, each, twenty drops  
 Mix. *Redwood.*

## J

## JALAPA.

## JALAP.

Jalap is the root of the *Ipomœa jalapa*, a native  
 of Mexico.

*Sex. Syst.* Pentand. monog. *Nat. Syst.* Con-  
 volvulacææ.

*Coxe, Am. Journ. Med. Sci.* 1830. *Griffith,*  
*Med. Bot.* 474.

The root, when dried, is in pieces of various  
 forms and size; usually entire, but sometimes

in slices. The epidermis is thin and brown;  
 within it is grayish, with brown, concentric rings.  
 The powder is of a brownish yellow, with a pe-  
 culiar, unpleasant odor, and a sweetish, sub-acrid,  
 nauseous taste. It is an active purgative, in doses  
 of ten to thirty grains.

## POWDER OF JALAP AND CALOMEL.

- R. Powdered jalap ten grains  
 Calomel five grains

Mix. To be given in syrup or molasses.  
As a purgative. *Ellis.*

R. Powdered jalap twelve grains  
Calomel three grains  
Sulphate of potassa seven grains  
Mix; make a powder, to be taken at night;  
a useful purge in diminishing the action of  
the liver. *A. T. Thomson.*

#### POWDER OF JALAP AND CREMOR TAR- TAR.

R. Powdered jalap one drachm  
Cremor tartar two drachms  
Mix, and divide into six powders. One  
every two hours, as a hydragogue purga-  
tive. *Ellis.*

R. Jalap two ounces  
Cremor tartar one ounce  
Sugar thirteen ounces  
Oil of orange peel two drachms

Mix. Dose, one to two drachms. *Cadet.*

R. Powdered jalap one ounce  
Cremor tartar two ounces

Mix. *U. S. Ph.*

R. Powdered jalap three ounces  
Cremor tartar six ounces  
Ginger two drachms

Mix. *Lond. Ph.*

Dose, thirty grains to a drachm.

#### POWDER OF JALAP AND IPECACUANHA.

R. Jalap fifteen grains  
Ipecacuanha five grains  
Oil of cinnamon two drops

Mix. *Paris.*

#### POWDER OF JALAP AND SCAMMONY.

R. Jalap one drachm  
Scammony one scruple  
Ipecacuanha ten drachms

Mix, and divide into powders of eight  
grains. In mucous discharges. *Dumas.*

#### COMPOUND POWDER OF JALAP.

R. Powdered jalap three ounces  
Cremor tartar six ounces  
Powdered ginger two drachms

Mix. Half a drachm to one drachm, as  
a hydragogue purgative. *Lond. Ph.*

#### EXTRACT OF JALAP.

R. Jalap, in coarse powder, one pound  
Alcohol four pints  
Water sufficient

Macerate the jalap in the alcohol for four  
days, then exhaust by the process of dis-  
placement; first by alcohol, then by wa-  
ter. Distil off the alcohol from the tinc-  
ture, and evaporate the infusion, till both  
are of the consistence of thin honey, mix

them, and evaporate to proper consist-  
ence. *U. S. Ph.*

Dose, from ten to twenty grains.

#### RESIN OF JALAP.

R. Coarsely powdered jalap at will  
Moisten thoroughly with rectified spirit,  
put in a displacement apparatus and ex-  
haust, distil off the spirit, and evaporate  
to due consistence. *Ed. Ph.*

Dose, four to twelve grains.

#### ALKALINE EXTRACT OF JALAP.

R. Powdered jalap two pounds  
Alcohol (.921) one gallon  
Digest for some days, strain, and filter;  
evaporate slowly on the water-bath to a  
pilular consistence, adding gradually

Carbonate of potassa twelve drachms  
Dose, three to nine grains. *Durand.*

#### COMPOUND PILLS OF JALAP.

R. Jalap  
Rhubarb  
Aloes, each, one ounce  
Soap two ounces

Syrup of ginger sufficient  
Mix, and form mass. Dose, twenty to  
thirty grains. *Foy.*

#### PILLS OF JALAP AND CALOMEL.

R. Resin of jalap  
Soap, each, one drachm  
Oil of orange peel six drops  
Mix, and make sixty pills. *Alibert.*

#### ELECTUARY OF JALAP.

R. Powdered jalap  
Black sulphuret of  
mercury, each, two drachms  
Scammony one drachm

Resin of jalap  
Squills, each, one drachm and a-half  
Syrup of buckthorn sufficient

Mix. Dose, half a drachm to a drachm,  
in dropsy or lead colic. *Cadet.*

R. Powdered jalap two drachms  
Cremor tartar one ounce and a-half  
Ginger one scruple  
Molasses two ounces and a-half

Mix. Dose, two drachms. *Beasley.*

R. Powdered jalap  
Cremor tartar  
Nitre, each, half an ounce  
Confection of senna one ounce  
Simple syrup sufficient

Mix. A bolus the size of a hazelnut,  
three or four times a-day, in hemorrhoids.  
*Ellis.*

#### EMULSION OF JALAP.

R. Resin of jalap nine grains



Soap three grains  
 Olive oil one ounce and a-half  
 Triturate well. Said to be useful in dysentery. A tablespoonful, occasionally.  
*Vogel.*

## MIXTURE OF JALAP.

R. Infusion of senna six fl. ounces  
 Extract of jalap half a drachm  
 Tartrate of potassa four drachms  
 Oil of ginger twenty minims  
 Mix. *Beasley.*

## SOAP OF JALAP.

R. Resin of jalap  
 Soap equal parts  
 Dissolve in Alcohol sufficient  
 Evaporate to pilular consistence. Dose, ten to fifteen grains. *Pruss. Ph.*

## TINCTURE OF JALAP.

R. Powdered jalap eight ounces  
 Diluted alcohol two pints  
 Macerate for fourteen days, express, and filter. *U. S. Ph.*  
 Seldom given alone, but added to cathartic mixtures, in portions of one to two fl. drachms.

## COMPOUND TINCTURE OF JALAP.

R. Jalap six drachms  
 Black hellebore three drachms  
 Juniper berries half an ounce  
 Rasped guaiacum half an ounce  
 Brandy twenty-four fl. ounces  
 Digest for three days, express, and filter. *Ed. Ph. 1744.*

R. Jalap eight ounces  
 Scammony two ounces  
 Turbeth one ounce  
 Brandy twelve pints  
 Digest for twelve hours, on a water-bath, filter, and add  
 Syrup of senna four pounds  
 Mix. *Giordano.*

## MIXTURE OF TINCTURE OF JALAP.

R. Tincture of jalap two fl. drachms  
 Vinegar of squill one fl. drachm  
 Mint water one fl. ounce  
 Mix. To be taken three times a-day. *Ellis.*

## JUGLANS CINEREA.

## BUTTERNUT.

The Butternut, or White Walnut, is an indigenous tree, with numerous, nearly horizontal, branches, found in many places in the United States.

*Ser. Syst. Monœc. polyand. Nat. Syst. Juglandacere.*

Linn. Sp. Pl. 1415. Griffith, Med. Bot. 589.  
 The part used is the inner bark, especially of the root; this is fibrous, has little odor, but a peculiar bitter, somewhat acid taste. It is, at first, white, but gradually changes to a dark brown. It is a mild cathartic, and is well suited to cases of costiveness and bowel affections. It is usually given in extract.

## EXTRACT OF BUTTERNUT.

R. Butternut, in coarse powder, one pound  
 Water sufficient  
 Mix the butternut with a pint of the water, macerate for twenty-four hours, introduce into a displacement apparatus, and exhaust. Heat the fluid to a boiling point, strain, and evaporate to proper consistence. *U. S. Ph.*

Dose, from five to ten grains, as a laxative; from twenty to thirty, as a purgative.

## JUNIPERUS.

## JUNIPER.

The common Juniper, *J. communis*, is an erect, evergreen shrub, sometimes attaining a large size, found in Europe, and Northern Asia and America. The tops and the berries are officinal. *Ser. Syst. Diœc. monadelph. Nat. Syst. Pinaceæ.*

Linn. Sp. Pl. 1470. Griffith, Med. Bot. 608.

The berries are oblong globular, marked with three radiating furrows at top, and contain three seeds. They are of a purplish black color, have a sweetish, somewhat terebinthinate taste, and a peculiar, aromatic odor. They are used as stimulating diuretics, especially as adjuvants to more active remedies. The tops have a balsamic odor, and a resinous, bitterish taste, with the same medicinal properties as the berries.

## EXTRACT OF JUNIPER.

R. Bruised juniper berries one pound  
 Distilled water three pints  
 Macerate at 77° to 86° for twenty-four hours; strain with gentle pressure, add more water to the berries, and let stand for twelve hours. Filter, and evaporate to proper consistence. Dose, one to three drachms. *Par. Cod.*

## INFUSION OF JUNIPER.

R. Juniper berries, bruised, one ounce  
 Boiling water one pint  
 Infuse, and strain. To be taken during the twenty-four hours. *Radiis.*

## COMPOUND INFUSION OF JUNIPER.

R. Juniper berries, bruised,  
 Mustard seed  
 Ginger, each, half an ounce  
 Horseradish, bruised,  
 Parsley root, bruised, each, one ounce  
 Cider two pints

Infuse, and strain. A wineglassful, two or three times a-day, in general dropsy.

*Parrish.*

R. Juniper berries,  
bruised, one ounce and a-half  
Cremor tartar one ounce  
Boiling water one pint

Infuse. A teacupful, several times a-day, with forty drops of sweet spirit of nitre. In dropsy.

*Ellis.*

R. Juniper berries,  
bruised, two ounces and a-half  
Boiling water one pint

Infuse for two hours, and strain; add

Compound spirit of  
juniper ten fl. drachms

Dose, two fl. ounces, three times a-day.

*Beasley.*

#### ELECTUARY OF JUNIPER.

R. Extract of juniper  
Clarified honey, each, one pound  
Juniper berries  
Cinnamon

Orange peel, each, half an ounce  
Mix. Stomachic and diuretic. Dose, one to four drachms.

*Saxon Ph.*

#### MIXTURE WITH OIL OF JUNIPER.

R. Oil of juniper half a drachm  
Nitric ether  
Tincture of fox-

glove, each, three drachms  
Mix. Twenty to thirty drops, every three hours.

*Hufeland.*

R. Oil of juniper eight drops  
Sugar

Gum Arabic, each, a drachm and a-half  
Distilled water four fl. ounces

Mix. A tablespoonful, every hour or two, as a diuretic.

*Ellis.*

#### COMPOUND SPIRIT OF JUNIPER.

R. Juniper berries, bruised, one pound  
Carraway, bruised,  
Fennel, bruised, each,

one ounce and a-half

Diluted alcohol one gallon

Water two pints

Macerate in the alcohol, for twenty-four hours, add the water, and with a slow fire, distil one gallon.

*U. S. Ph.*

Dose, two to four fl. drachms, as an addition to diuretic mixtures, &c., in debilitated cases of dropsy.

#### LINIMENT OF JUNIPER.

R. Oil of juniper one ounce and a-half  
Oil of anise six drops

Lard two ounces

Mix well; as an application in tinea capitis.

*Sully.*

R. Spirit of juniper two ounces  
Oil of cloves

Butter of nutmeg, each, half a drachm

Mix. As a friction in ecchymosis, and indolent tumors.

*Augustin.*

#### JUNIPERUS VIRGINIANA.

##### RED CEDAR.

The tops of the red cedar are officinal. This is an evergreen tree, sometimes attaining a great size, with small, fleshy, closely imbricated leaves. It is found in all parts of the United States, but is most abundant and vigorous in the south.

*Sax. Syst.* Diœc. monadelph. *Nat. Syst.* Pinaceæ.

*Linn. Sp. Pl.* 1471. *Griffith, Med. Bot.* 609.

The leaves or tops have a peculiar and somewhat aromatic odor, a bitterish and somewhat acrid taste. They have much the same properties as those of savine, but are not as active, though often used as a substitute for them.

## K

#### KINO.

##### KINO.

This is an extract obtained from several different plants, but that most used and esteemed is the product of *Pterocarpus marsupium*, a large tree, indigenous to some parts of India.

It is usually in small, angular fragments, of a dark, brownish-black color, opaque and shining, of a brittle and friable consistence, an astringent and slightly bitter taste; adhering to the teeth

when chewed, and tinging the saliva of a red color. It is a powerful astringent, and much used in the treatment of mucous discharges, &c., and as a local application in gonorrhœa, to indolent ulcers, relaxed uvula, &c. The dose in powder is from ten to thirty grains.

#### COMPOUND POWDER OF KINO.

R. Powdered kino fifteen drachms  
opium one drachm  
cinnamon four drachms

Rub well together. Dose, five to twenty grains. *Lond. Ph.*

As an anodyne astringent, in diarrhœa and hemorrhage of the bowels.

R. Powdered kino  
Sugar of milk, each, one scruple  
Mix. To be taken every three or four hours, in cardialgia. *Radius.*

#### COMPOUND PILLS OF KINO.

R. Powdered kino one scruple  
opium two grains  
Mucilage of gum Arabic sufficient  
Mix, and make four pills. One, every four hours, in diarrhœa, pyrosis, &c.

*Ellis.*

R. Powdered kino two scruples  
camphor thirty grains  
Aromatic powder one scruple  
Oxide of zinc ten grains  
Mucilage of gum Arabic sufficient  
Mix, and make twenty pills. Two, morning and evening, in diabetes. *Augustin.*

#### ELECTUARY OF KINO.

R. Powdered kino six drachms  
alum  
cinnamon, each, two drachms  
Syrup sufficient  
Mix into an electuary. One drachm, two or three times a-day, in diarrhœa, chronic dysentery, &c. *Swedliaur.*

#### INFUSION OF KINO.

R. Kino two drachms  
Boiling water eight. fl. ounces  
Infuse, and strain when cool. Dose, a fl. ounce. *Wood.*

#### INJECTION OF KINO.

R. Kino one to two drachms  
Alum twenty to thirty grains  
Boiling water two pints  
Infuse for an hour, and strain. As an injection in chronic urethritis. *Swedliaur.*

#### SYRUP OF KINO.

R. Kino two ounces  
Tepid water three pints  
Dissolve, and add  
Sugar four pounds  
Clarify, and evaporate to consistence of syrup. *Taddei.*

#### TINCTURE OF KINO.

R. Powdered kino three ounces and a-half  
Rectified spirit two pints  
Macerate for fourteen days, and filter. *Lond. Ph.*

Dose, one to two fl. drachms, generally as an adjuvant to astringent mixtures.

## KRAMERIA.

### RHATANY.

The roots of several species of *Krameria* are possessed of analogous properties, but the only one that is officinal, is that of *K. triandra*, a small shrub found in Peru, in dry, sandy places. The stem is procumbent, and much branched, with sessile, hairy leaves, and dark red flowers. The root is long and branching.

*Sex. Syst.* Tetrand. monog. *Nat. Syst.* Polygalacææ.

Ruiz & Pavon, Fl. Per. i. 93. Griffith, Med. Bot. 227.

The dried root is of a dark, reddish-brown color, with no odor, but a bitter and astringent taste. The small roots are the most powerful. It is somewhat tonic, and powerfully astringent. It is used for most purposes to which the vegetable astringents are applied. The dose in powder is from twenty to thirty grains.

#### COMPOUND POWDER OF RHATANY.

R. Extract of rhatany  
Catechu, each, ten grains  
Alum four grains  
Powdered liquorice ten grains  
Mix. To be taken three or four times a-day, in diarrhœa, &c. *Vogt.*

#### DENTRIFICE OF RHATANY.

R. Extract of rhatany one to two drachms  
myrrh one drachm  
Powdered orris six drachms  
Oil of cinnamon two drops  
myrrh ten drops  
Balsam Peru ten grains  
Mix well. *Phœbus.*

#### EXTRACT OF RHATANY.

R. Prepared like extract of gentian. *U. S. Ph.*

Dose, ten to twenty grains.

#### PILLS OF RHATANY.

R. Extract of rhatany one scruple  
Powdered kino sufficient  
Mix, and make eight pills. One, every hour or two, to check mucous discharges. *Ellis.*

R. Extract of rhatany one drachm  
rhubarb two scruples  
Ginger one scruple  
Mix, and make twenty-four pills. *Reece.*

#### ELECTUARY OF RHATANY.

R. Powdered rhatany one ounce  
ginger one drachm  
Syrup of orange peel sufficient  
Mix. A teaspoonful every two or three hours. *Ferrara Ph.*

#### INFUSION OF RHATANY.

R. Bruised rhatany one ounce



Boiling water one pint  
 Infuse for four hours, and strain.

*U. S. Ph.*

Dose, one to two fl. ounces.

#### COLLUTORY OF RHATANY.

R. Extract of rhatany half a drachm  
 Mucilage of quince

seeds two drachms and a-half

Sage water one ounce and a-half

Mix. As a mouth-wash in aphthæ, &c.

*Radiu.*

#### CLYSTER OF RHATANY.

R. Extract of rhatany one scruple

Mucilage of quince

seeds three drachms

Infusion of sage one fl. ounce and a-half

Mix. To check diarrhœa, &c. *Ammon.*

#### INJECTION OF RHATANY.

R. Extract of rhatany half an ounce

Tincture of catechu

kino, each,

one drachm and a-half

To be added to a decoction of

Rhatany ten drachms

Water three pints

Reduced to two-thirds, and strained. As  
 an injection in leucorrhœa, and prolapsus  
 of the uterus. *Cudet.*

#### MIXTURE OF RHATANY.

R. Extract of rhatany one drachm

Syrup of poppies

Rose water, each, two fl. ounces

Mix. A teaspoonful occasionally, in pas-  
 sive hemorrhage and chronic dysentery.

*Fouquier.*

R. Extract of rhatany one drachm

Chamomile water six fl. ounces

Elixir of vitriol half a drachm

Mix. As the last. *Hildebrand.*

#### SYRUP OF RHATANY.

R. Extract of rhatany two ounces

Water one pint

Sugar two pounds and a-half

Dissolve the extract in the water, add the  
 sugar, and form syrup. *U. S. Ph.*

Dose, half fl. ounce.

#### TINCTURE OF RHATANY.

R. Powdered rhatany six ounces

Diluted alcohol two pints

Macerate for fourteen days, express, and  
 filter. *U. S. Ph.*

Dose, one to two fl. drachms.

#### COMPOUND OINTMENT OF RHATANY.

R. Burgundy pitch eight parts

Venice turpentine two parts

White wax one part

Extract of rhatany two parts

Alum one part

Melt the first three ingredients, over a  
 gentle fire, and add the rhatany and alum,  
 in fine powder, and incorporate well.

Useful where an astringent application is in-  
 dicated.

## L

### LAC.

#### MILK.

The milk of several animals has been used  
 medicinally, but that generally employed is from  
 the cow. It is mostly employed in the form of  
 whey, and of sugar of milk.

#### SIMPLE WHEY.

R. Milk three pints  
 Prepared rennet sufficient

Cover up the mixture, and place before the  
 fire, till a uniform curd is formed; divide  
 this with a spoon, and strain. A good  
 diluent in febrile affections; when boiled  
 down to one half, it is nutritive.

*A. T. Thomson.*

### VINEGAR WHEY.

R. Milk one pint  
 Vinegar half fl. ounce

Boil a few minutes, and separate the curd.  
*Ellis.*

#### TAMARIND WHEY.

R. Boiling milk one pint  
 Tamarinds two ounces

Boil till coagulation is effected, and strain.  
*Plenck.*

#### CREMOR TARTAR WHEY.

R. Boiling milk one quart  
 Cremor tartar half an ounce

Boil until the curd separates, and strain.  
*Plenck.*

## ALUM WHEY.

R. Clear whey one pint  
 Alum two drachms  
 Dissolve. A glassful occasionally, in passive hemorrhages. *Foy.*

## AROMATIC ALUM WHEY.

R. Powdered alum one drachm  
 Sugar of milk half a drachm  
 Powdered cinnamon fifteen grains  
 Milk two pints  
 Boil, and strain when coagulated. In passive uterine hemorrhages. To be taken during the day. *Niemann.*

## MUSTARD WHEY.

R. Bruised mustard seed half an ounce  
 Milk one pint  
 Boil till the milk is coagulated, and strain. A cupful, as a diuretic, in dropsical affections. *A. T. Thomson.*

## WINE WHEY.

R. Boiling milk half a pint  
 White wine one to two fl. ounces  
 Sugar sufficient  
 Boil for ten minutes, constantly stirring, then strain. A good mode of giving wine as a stimulant. Dose must depend on circumstances. *Ellis.*

## POWDER OF MILK.

R. Milk two pints  
 Powdered carbonate of soda half a drachm  
 Water one fl. ounce  
 Sugar one pound  
 Dissolve the soda in the water, add the solution to the milk, gently heat, and stir. When evaporated to one-third, add the sugar gradually, and stir. Remove from fire, pour into plates, and dry in an oven. When dry, powder, and keep in well stoppered bottles. One to two ounces, mixed with a quart of water, forms an agreeable drink, and is a good substitute for milk. *Legrip.*

## ARTIFICIAL GOATS' MILK.

R. Fresh suet one ounce  
 Cut in small pieces, and tie in a muslin bag, and boil in  
 Milk two pints  
 Sugar candy two drachms  
 A good diet in scrofulous emaciation, and in latter stages of phthisis. *A. T. Thomson.*

## MIXTURE OF MILK AND SUET.

R. Sheeps' suet two ounces  
 Milk one pint  
 Starch half an ounce

Boil slowly for half an hour. As a drink, in dysentery and cholera infantum. *Ellis.*

## MILK AND SODA WATER.

R. Milk a teacupful  
 Heat nearly to boiling, and add  
 Sugar a teaspoonful  
 Put in a large tumbler, and add  
 Soda water sufficient  
 A good mode of taking milk when there is much acidity of stomach. *A. T. Thomson.*

## SUGAR OF MILK.

R. Plain whey at will  
 Clarify with white of egg, and evaporate on water-bath, to crystallization, and set aside in a cool place. *Redwood.*

Cooling and laxative, in doses of two drachms to one ounce.

## SYRUP OF MILK.

R. Skimmed milk twelve pounds  
 Evaporate to one-half, and add  
 Sugar nine pounds  
 Cherry laurel water three ounces  
*Guilbourt.*

## MIXTURE OF SUGAR OF MILK AND ICELAND MOSS.

R. Iceland moss four drachms  
 Water one pint and a-half  
 Reduce to one-half by boiling, strain, and add  
 Sugar of milk two drachms  
 Milk one pint  
 Syrup of asparagus three ounces  
 A cupful, occasionally, in chronic catarrh. *Cadet.*

## MIXTURE OF SUGAR OF MILK AND GUM ARABIC.

R. Sugar of milk  
 Sugar, each, two pounds  
 Gum Arabic three pounds  
 Extract of dog grass, seven ounces  
 Mix. Half an ounce dissolved in a quart of water, forms a refreshing and demulcent drink. *Cadet.*

## SUGAR OF MILK DRAUGHT.

R. Sugar of milk half an ounce  
 Boiling water two pounds  
 Lemon juice sufficient  
 Mix. Recommended in cholera, to appease the thirst. *Ammon.*

## PAROLIC CEMENT.

R. Curd of milk, dried and powdered ten ounces  
 Quicklime, powdered, one ounce  
 Camphor two drachms

Mix, and keep in closely-stopped bottles. When used, a portion is to be mixed with a little water into a paste, to be applied quickly. Used to cement broken glass, china, &c.

*Cooley.*

## LACCA.

### LAC

Is a resinous substance obtained from several kinds of East Indian plants, but particularly from the *Croton lacciferum*. Many varieties are known in commerce, but the principal are seed, shell, and stick lac, of which the purest is the shell. This is in thin fragments of various shades of yellow, or reddish color; brittle, inodorous, and insipid. It is somewhat astringent, and was formerly used in medicine, but is now mainly employed in the arts, for the manufacture of varnishes, sealing wax, &c.

### WHITE OR BLEACHED LAC.

R. Shell lac at will  
Boil in solution of potassa, pass chlorine gas through the solution, and malaxate in hot water.

*Redwood.*

### AQUEOUS SOLUTION OF LAC.

R. Shell lac five ounces  
Borax one ounce  
Water one pint  
Boil together, and strain. Used as a varnish, or a vehicle for colors. Mixed with lampblack, it forms an ink that will resist the action of acids.

*Cooley.*

### CEMENT OF SHELL LAC.

R. Shell lac at will  
Alcohol sufficient  
to make a solution of the consistence of molasses. Exceedingly tenacious.

*Cooley.*

### SEALING WAX, RED.

R. Shell lac two pounds  
Venice turpentine one pound  
Vermilion one pound and a-half  
Melt the lac and turpentine together, and stir in the vermilion.

*Gray.*

The other colored waxes are made in the same manner, using the appropriate pigment.

## LACTUCA ELONGATA.

### WILD LETTUCE.

The Wild Lettuce is an indigenous, herbaceous perennial, from three to six feet high, with pale yellow flowers, growing in woods and fertile soils.

*Scx. Syst.* Syngen. æqual. *Nat. Syst.* Astera-  
ceæ.

Willd. Sp. Pl. iii. 1525. Big. Sq. 241.

Considered to resemble the *Lactuca virosa* in

medical properties. An extract made from it may be given in doses of five to fifteen grains.

## LACTUCA.

### LETTUCE.

This well known plant is commonly cultivated for the table as a salad. It is erect and leafy, the leaves being ovate, semi-amplexant, and entire or toothed. The whole abounding in a bitter, milky juice.

It is anodyne and sedative, but is seldom used in this country except in the form of the extract, or lactucarium, but is employed to fulfil many indications in Europe.

### MIXTURE OF LETTUCE AND DANDELION.

R. Fresh leaves of lettuce  
and root of dandelion  
of chicory, each, three  
ounces

Beat the whole into a pulp, adding, gradually,

Peppermint water three ounces  
Express, and filter. To be taken, during the day, in hypochondriasis, with insomnia.

*Voght.*

### EXTRACT OF LETTUCE. THRIDACE.

R. Juice of the bark of lettuce at will  
Evaporate in the stove by a gentle heat, on plates.

*Par. Cod.*

### SYRUP OF THRIDACE.

R. Thridace two drachms  
Water two fl. ounces

Add to the solution

Boiling syrup one pound  
Evaporate, and strain.

*Par. Cod.*

### EXTRACT OF LETTUCE. LACTUCARIUM.

R. Collect the milky juice that flows from incisions made in the stalks of lettuce.

*U. S. Ph.*

### PILLS OF LACTUCARIUM.

R. Lactucarium twelve grains  
Make six pills; one every two hours, till sleep is procured.

*Ellis.*

R. Lactucarium twelve grains  
Conserve of elder berries

Extract of liquorice, each, sufficient  
Mix, and make four pills. One, every three hours, in obstinate coughs, without expectoration.

*Brera.*

### MIXTURE OF LACTUCARIUM.

R. Lactucarium thirty grains  
Decoction of Iceland moss two ounces  
Mucilage half an ounce  
Syrup one ounce

Mix. Two spoonfuls every two hours, in spasmodic cough, insomnia, hysteria, &c.

*Brera.*



## SYRUP OF LACTUCARIUM.

R. Lactucarium                    seventeen grains  
 Distilled water    three hundred grains  
 Simple syrup                    half a pint  
 Extraet the lactucarium, with the water  
 at the boiling temperature, add the solu-  
 tion to the syrup, and evaporate it to half  
 a pint. *Monchon.*

## TINCTURE OF LACTUCARIUM.

R. Powdered lactucarium    four ounces  
 Proof spirit                    two pints  
 Aet by displacement or digestion.

*Ed. Ph.*

Dose, thirty minims to two fl. drachms.

## LOZENGES OF LACTUCARIUM.

R. Powdered lactucarium    two drachms  
       sugar                    six ounces  
       gum Arabic  
       liquorice, each,    five ounces  
 Mix, and make lozenges. *Ed. Ph.*

As expectorant, in catarrhal affections.

## WATERY EXTRACT OF LETTUCE.

R. Fresh lettuce leaves        one pound  
 Bruise them in a stone mortar, adding a  
 little water, express the juice, and evapo-  
 rate, without straining, to a proper con-  
 sistence. *Lond. Ph.*

Dose, five to fifteen grains.

R. Bark and leaves of lettuce, when old  
 and yellow; macerate in water for twenty-  
 four hours, boil for two hours, drain through  
 a sieve, evaporate in shallow vessels by  
 exposure. Dose, three to four grains.

*Probat.*

## POWDER OF EXTRACT OF LETTUCE.

R. Extraet of lettuce        two grains  
 Powdered foxglove        half a grain  
       sugar                    twelve grains  
 Mix. To be taken every two hours, in  
 hydrothorax. *Hufeland.*

## MIXTURE OF EXTRACT OF LETTUCE.

R. Extraet of lettuce        two scruples  
 Tincture of foxglove        half an ounce  
 Vinous cinnamon  
       water                    one drachm and a-half  
 Mix. Thirty drops to one fl. drachm, every  
 two hours. *Radiis.*

## AROMATIC TINCTURE OF LETTUCE.

R. Leaves of lettuce        one ounce  
 Cinnamon                    one drachm  
 Alcohol  
 Water, each,                    four fl. ounces  
 Mix. Macerate for a week, express, and  
 filter. Fifteen to thirty drops, in dropsy.  
*Niemann.*

## WATER OF LETTUCE.

R. Fresh lettuce                    ten parts  
 Water                    twenty parts  
 Distil off ten parts. *Par. Cod.*  
 Dose, half a fl. ounce to two fl. ounces.

## SYRUP OF LETTUCE.

R. Water of lettuce                    one pint  
 Sugar                    two pounds  
 Make syrup. *Par. Cod.*

## MIXTURE OF WATER OF LETTUCE.

R. Water of lettuce  
       linden, each,    two fl. ounces  
       orange flowers    two drachms  
 Syrup of poppies                    one ounce  
 Mix. A spoonful every two hours. *Foy.*

## LAURUS.

## LAUREL. BAY TREE.

The berries (*Lauri baccæ*) and leaves (*Lauri folia*) of the *Laurus nobilis*, or bay tree, are used in medicine. This laurel is a small, evergreen tree, indigenous to the countries bordering on the Mediterranean.

*Sec. Syst.* Enneand. monog. *Nat. Syst.* Lauraceæ.

Linn. Sp. Pl. 529. Griffith, Med. Bot. 550.

The leaves are fragrant, and have an aromatic, bitterish taste. The berries are small, oval, of a deep blue, when fresh, of a brownish-black, when dried, aromatic, and with an acrid, bitterish taste; they contain a concrete, greenish oil. Neither the leaves nor berries, nor their products, are now much used in medicine; they are stimulant and narcotic.

## OIL OF LAUREL.

R. Laurel berries                    at will  
 Crush, warm the pulp for a few moments  
 by a gentle heat, and subject to pressure.  
*Guibourt.*

Used as a friction, in swelling and pain in the joints, colic, &c.

## LAUREL OINTMENT.

R. Suet                    eight ounces  
 Melt, and add  
       Laurel oil                    one pound  
       Essence of turpen-  
           tine                    one ounce and a-half  
*Port Ph.*

There are a variety of formulas for this ointment, which is much used under the name of Nervine ointment, or balsam.

R. Fresh laurel leaves  
       berries, each,    one pound  
       Lard                    two pounds  
 Digest the bruised leaves and berries with  
 the lard, till all moisture is driven off, and  
 express. *Par. Cod.*

Both these are used as stimulating frictions.

## LAURO CERASUS.

## CHERRY LAUREL.

This is the official appellation of the leaves of the *Prunus lauro cerasus*, a small evergreen tree, a native of Asia Minor, but cultivated in the temperate parts of Europe, both for ornament and for medicinal purposes.

*Sex. Syst.* Icosand. monog. *Nat. Syst.* Drupaceae.

Linn. Sp. Pl. 678. Griffith, Med. Bot. 289.

The leaves are ovate-oblong, smooth, and shining, with scarcely any smell when entire, but when bruised, giving out a strong bitter almond odor; they have an astringent, bitter taste, with a flavor like the peach kernel. They become scentless by desiccation. They possess properties analogous to those of hydrocyanic acid, and some of the preparations from them are used for similar purposes. From the plant not being cultivated in this country, these preparations are not in use.

## CHERRY LAUREL WATER.

R. Fresh leaves of cherry laurel one pound  
Water two pints and a-half  
Compound spirits of lavender one ounce  
Bruise the leaves, mix them with the water, and distil off one pint; agitate this well; if any milkiness remain, filter, then add the spirit of lavender. *Ed. Ph.*

A sedative narcotic, similar to diluted hydrocyanic acid, but of uncertain strength. Dose, thirty minims to a fl. drachm.

## INFUSION OF CHERRY LAUREL.

R. Fresh leaves of cherry laurel four ounces  
Boiling water two pints  
Infuse, strain, and add  
Clarified honey four ounces  
Used as a lotion in cancer of the lips, and in malignant ulcers. *Cadet.*

## OINTMENT OF CHERRY LAUREL.

R. Essential oil of cherry laurel one drachm  
Lard one ounce  
Mix. As an application to alleviate pain of cancers. *Soubéiran.*

## CHERRY LAUREL WATER LOTION.

R. Distilled cherry laurel water four ounces  
Sulphuric ether one ounce  
Extract of belladonna two drachms  
Mix. Said to be very beneficial as a lotion in cases of neuralgia. *Roux.*

## MIXTURE OF CHERRY LAUREL WATER.

R. Cherry laurel water sixty drops  
Peppermint water two fl. ounces  
Infusion of quassia four fl. ounces

Mix. In dysentery, &c., in doses of a tablespoonful, three times a-day. *Augustin.*

## CERATE OF CHERRY LAUREL.

R. Cherry laurel water twelve parts  
Oil of almonds sixteen parts  
White wax four parts  
Melt the oil and wax together, and mix the cherry laurel water, stirring well. As an application to burns. *Roux.*

## LAVANDULA.

## LAVENDER.

Several species of Lavender are used in medicine, but the only one recognized by the U. S. Ph. is the *Lavandula vera*. This is a small shrub, a native of the south of Europe, and commonly cultivated in our gardens; it has opposite, sessile, narrow leaves, and spikes of small, blue flowers.

*Sex. Syst.* Didym. gymnos. *Nat. Syst.* Lamiaceae.

Linn. Sp. Pl. 800. Griffith, Med. Bot. 501.

The part used is the flowers; these have a strong, fragrant odor, and an aromatic, warm, bitterish taste. Lavender is an aromatic stimulant, and much used in nervous debility, but is mostly employed as a perfume.

## COMPOUND POWDER OF LAVENDER.

R. Lavender  
Benzoin  
Cloves  
Sal ammoniac, each, one ounce  
Petals of red roses four ounces  
Pomegranate flowers  
Chamomile flowers  
Pot marigold flowers, each, two ounces  
Peppermint flowers six drachms  
Myrrh four drachms  
Cologne water two drachms  
Solution of ammonia eighteen drops  
Oil of cinnamon six drops  
Mix well. To perfume rooms and drawers. *Guibourt.*

## SPIRIT OF LAVENDER.

R. Fresh lavender two pounds  
Alcohol one gallon  
Water two pints  
Mix, and distil a gallon by a slow fire. *U. S. Ph.*

## LAVENDER WATER.

R. Oil of lavender one fl. ounce  
Diluted alcohol fifteen fl. ounces  
Mix. *Gray.*  
R. Alcohol five gallons  
Oil of lavender twenty ounces  
bergamot five ounces  
Essence of ambergris half an ounce  
Mix.

R. Oil of lavender	four ounces
Essence of musk	two ounces
Oil of berga-	
mot	ten fl. drachms and a-half
Oil of cloves	five drachms
roses	one drachm
origanum	half a drachm
rosemary	half a drachm
Alcohol	ten pints
Water	two pints

Mix.

These are used for perfumes.

#### COMPOUND SPIRIT OF LAVENDER.

R. Spirit of lavender	three pints
Spirit of rosemary	one pint
Bruised cinnamon	one ounce
cloves	two drachms
nutmeg	half an ounce
Rasped red saunders	three drachms
Macerate for fourteen days, express, and filter.	<i>U. S. Ph.</i>

As a stimulant and carminative, in doses of thirty drops to a fl. drachm.

#### OINTMENT OF LAVENDER.

R. Oil of lavender	
nutmeg	
Butter of cocoa	equal parts
Mix. To increase the growth of hair.	

#### ETHEREAL TINCTURE OF LAVENDER.

R. Oil of lavender	one part
Sulphuric ether	seven parts
Mix. Dose, five to ten drops.	<i>Beral.</i>

#### COMPOUND ESSENCE OF LAVENDER.

R. Oil of lavender	forty-eight drops
cloves	thirty-two drops
orange peel	sixteen drops
bergamot	eight drops
Sweet spirit of nitre	eight drops
Oil of yellow sandal	
neroli	
roses, each,	two drops
cinnamon	one drop
Diluted alcohol	one ounce
Dissolve, and add	
Honey water	eight ounces
Essence of ambergris and	
musk	one ounce
Mix. As a perfume.	<i>Redwood.</i>

### LIMON.

#### LEMON.

The Lemon is the fruit of the *Citrus limonum*, a native of Asia, but now generally cultivated in all warm climates.

*Scr. Syst.* Polydelph. icosand. *Nat. Syst.* Aurantiaceæ.

Risso, Ann. Mus. xx. 207. Griffith, Med. Bot. 168.

The parts used in medicine are, the juice and the outer rind; the latter has a fragrant odor, and an aromatic, bitter taste; the juice, as is well known, is very acid, with a peculiar, grateful, and refreshing taste.

#### ESSENCE OF LEMON.

R. Pure oil of lemon	one fl. ounce
Decolorized alcohol	eight fl. ounces
Exterior rind of	
lemon (fresh)	half an ounce

Mix. Macerate for forty-eight hours, and filter; used for flavoring mixtures, and for pastry. *W. Procter.*

#### LOZENGES OF OIL OF LEMON.

R. Oil of lemon	one drachm
Sugar	twelve ounces
Lemon water	sufficient
Boil one-third of the sugar, with the lemon water, to the consistence of honey, by a gentle heat, add the rest of the sugar and the oil, and form lozenges.	<i>Cottureau.</i>

#### LOZENGES OF LEMON JUICE.

R. Lemon juice	two ounces and a-half
Sugar	sixteen ounces
Essence of lemon	one scruple
Mix, and form lozenges.	<i>Radius.</i>

#### COLLUTORY OF LEMON JUICE.

R. Lemon juice	
Sugar, each,	one part
Claret wine	sixteen parts
As a mouth-wash in scurvy.	<i>Brera.</i>

#### LEMONADE.

R. Lemon juice	four ounces
Fresh lemon peel	half an ounce
Sugar	four ounces
Boiling water	three pints
Mix, and let cool.	<i>Ellis.</i>
R. Lemons	three
Boiling water	two pints
Sugar	two ounces
Cut the lemons in slices, pour the water on them, and add the sugar at the end of an hour, and strain.	<i>Ratier.</i>

#### COMPOUND LEMONADE.

R. Lemons	two
Peel them, remove the seeds, and beat them with	
Toasted bread	two ounces
Adding, gradually,	
Infusion of malt	one pint and a-half
Strain, and add	
Syrup of mulberries	one ounce
Wine	six ounces
	<i>Cadet.</i>



## LEMON PEEL WATER.

R. Pare the rind of one lemon, previously rubbed with half an ounce of loaf sugar; put both into a jar, and add a quart of boiling water; when cold decant, and add one tablespoonful of lemon juice.

*A. T. Thomson.*

## LEMON SYRUP.

R. Strained lemon juice                    one pint  
Sugar    two pounds  
Mix, and form syrup.                    *U. S. Ph.*

## SYRUP OF LEMON PEEL.

R. Fresh lemon peel                    three ounces  
Boiling water                            one pint  
Infuse for three days, and add  
Syrup    three pounds  
*Guibourt.*

## VINOUS SYRUP OF LEMON PEEL.

R. Fresh lemon peel                    half a pound  
Wine    a pint and a-half  
Macerate for twenty-four hours, express, and add  
Syrup    one pound and a-half  
Boil, strain, and add  
Oil of lemon, rubbed  
with sugar                                    fifteen drops  
*Sard. Ph.*

## SPIRIT OF LEMON.

R. Fresh lemon peel                    one part  
Alcohol                                        four parts  
Water    two parts  
Macerate for two days, and then distil four parts.                    *Taddei.*

## ODORIFEROUS SPIRIT OF LEMON.

R. Oil of lemon  
bergamot  
lavender, each,                    one part  
Acetic ether                                four parts  
Mix. Used as a perfume.                    *Sax. Ph.*

## COLOGNE WATER.

R. Oil of bergamot  
lemon  
cedrat, each,                    three ounces  
rosemary  
neroli  
lavender, each,                    one ounce and a-half  
cinnamon                                six drachms  
Alcohol                                        twenty-four pounds  
Eau de melisse                            three pounds  
Spirit of rosemary                        two pounds  
Dissolve the oils in the alcohol, add the other articles, and distil four-fifths.

*Cottureau.*

R. Balm    two pounds  
Rosemary                                        eight ounces

Lemon peel                                    six ounces  
Nutmeg  
Cloves  
Cinnamon  
Coriander, each,                    two ounces  
Oil of bergamot                        one ounce  
Alcohol                                        six pounds  
Water    eight pounds

Mix, and distil by a gentle fire.

*Niemann.*

R. Oil of neroli  
lemon  
bergamot  
orange  
rosemary, each,                    twelve drops  
Cardamom                                    one drachm  
Alcohol                                        one pint  
Mix, and distil two-thirds. Said by Tromsdorff to be the formula used at Cologne.  
*Niemann.*

R. Oil of bergamot  
lemon  
cedrat  
neroli, each,                    four drachms  
cinnamon  
rosemary, each,                    one drachm  
Alcohol                                        three pounds  
Spirit of rosemary                        three ounces  
Digest for a few days, and distil almost to dryness, add to the product  
Balm water                                    nine ounces  
Spirit of jasmine  
orris, each,                    four drachms  
*Giordano.*

R. Oil of bergamot                    three ounces  
lemon    two ounces  
lavender three drachms and a-half  
neroli two drachms and a-half  
origanum                                    two drachms  
rosemary                                    one drachm  
Essence of vanilla                        two drachms  
Musk    ten grains  
Alcohol                                        thirteen pints  
Rose water                                    two pints  
Orange-flower water                    one pint  
Mix, and after fourteen days, filter. *Gray.*

R. Essence of bergamot                    two ounces  
rosemary  
mint, each,                    one drachm  
lemon    two drachms  
neroli    ten grains  
Balm water                                    two ounces and a-half  
Mix.    *Ferrera Ph.*

R. Oil of bergamot  
lemons, each,                    one drachm  
neroli    half a drachm  
cedrat    twenty drops

Honey water one ounce  
 Alcohol one pint  
 Mix. *Gray.*  
 R. Oil of neroli  
     orange  
     lemon  
     marjoram  
     rosemary,  
         each, one drachm and a-half  
     cinnamon four drops  
 Civet three grains  
 Ambergis two grains  
 Alcohol four pounds and a-half  
 Macerate for a month, and filter.

*Swed. iaur.*  
 R. Oil of bergamot three drachms  
     lemon two drachms  
     lavender twenty-five drops  
     neroli fifteen drops  
     origanum ten drops  
 Alcohol two pints  
 Mix. *Gray.*

## UNPARALLELED WATER.

R. Oil of lemon half an ounce  
     bergamot two drachms and a-half  
     cedrat two drachms  
 Alcohol seventy-two ounces  
 Hungary water eight ounces  
 Mix, and distil all but nine ounces.  
*Guilbourt.*

## LINUM.

## FLAXSEED.

Flaxseed is the product of *Linum usitatissimum*, or common flax, now cultivated in most parts of the world, but whose native country is unknown.

*Sex. Syst.* Pentand. pentag. *Nat. Syst.* Linacæ.  
 Linn. Sp. Pl. 397. Griffith, Med. Bot. 206.

Both the seeds and the oil extracted from them are officinal. The first are small, oval, shining, and of a brown color. They are devoid of smell, and have a mucilaginous taste when unbroken, but an oily one when chewed. When steeped in water, they afford a viscid, inodorous and almost tasteless mucilage. The oil, which is obtained by expression, is laxative and emollient, but is principally used in the arts.

## COMPOUND MEAL OF FLAXSEED.

R. Flaxseed meal  
     Barley meal  
     Rye meal equal parts  
 Mix. To make cataplasm. *Cottureau.*

## EMOLLIENT CATAPLASM.

R. Compound meal of flax-seed four ounces  
 Water sufficient.  
 Boil to proper consistence. *Par. Cod.*

## CATAPLASM OF FLAXSEED.

R. Boiling water one pint  
     Flaxseed meal sufficient  
 Mix, and make cataplasm. *Lond. Ph.*

## INFUSION OF FLAXSEED.

R. Flaxseed half an ounce  
     Liquorice, bruised, two drachms  
     Boiling water one pint  
 Macerate for four hours, in a covered vessel, and strain. *U. S. Ph.*

A pleasant demulcent drink, in inflammatory affections of the lungs, bladder, &c.

## FLAXSEED MIXTURE.

R. Flaxseed one drachm  
     Boiling water six ounces  
 Infuse, strain, and add  
     Syrup of poppies half an ounce  
     Orange-flower water two drachms  
 Mix. *St Marie.*

## CLYSTER OF FLAXSEED OIL.

R. Flaxseed oil two ounces  
     infusion eight ounces  
 Mix. *Swed. iaur.*

## FLAXSEED OIL LINIMENT.

R. Flaxseed oil twelve fl. ounces  
     Lime water seven fl. ounces  
 Mix. As an application to burns and scalds. *Ainslie.*

## LIRIODENDRON.

## TULIP TREE BARK.

The tulip tree, or *Liriodendron tulipifera*, is one of the most magnificent of our native trees. It is found in most parts of the United States, and is popularly known as the poplar.

*Sex. Syst.* Polyand. polyg. *Nat. Syst.* Magnoliacæ.

Linn. Sp. Pl. 755. Griffith, Med. Bot. 98.

The officinal portion is the bark; this, when deprived of its epidermis, is of a yellowish white color, having a faint odor, but a bitter, pungent, aromatic taste. It is a stimulating tonic, and has been used as a febrifuge, as well as in dyspepsia, chronic rheumatism, &c. The dose in powder is from half a drachm to two drachms.

## INFUSION OF TULIP TREE BARK.

R. Tulip tree bark one ounce  
     Boiling water one pint  
 Infuse, and strain. Dose, one to two fl. ounces, as a stimulating tonic and diaphoretic. *Wood.*

## TINCTURE OF TULIP TREE BARK.

R. Tulip tree bark, bruised, four ounces  
     Diluted alcohol one pint  
 Macerate for a week, express, and filter.  
 Dose, about a fl. drachm. *Beasley.*

## LOBELIA.

## LOBELIA.

Several species of *Lobelia* are medicinal, but the only one recognized as official, is the *L. inflata*, a small annual plant, found in most parts of the United States, having numerous small blue flowers, on leafy racemes. The leaves are ovate, sessile, serrate, and hairy.

*Sex. Syst.* Pentand. monog. *Nat. Syst.* Lobeliaceæ.

Linn. Sp. Pl. 1006. Griffith, Med. Bot. 418.

The whole herb is official, but the root and seed vessels are the most active. When dried, it has a somewhat unpleasant odor, and an acrid, burning, nauseous taste, resembling that of tobacco. It is emetic, and, in small doses, expectorant and sudorific. It also possesses narcotic properties. It is principally used in asthma, it has also been used in other diseases of the respiratory organs, &c. Dose in substance, as an emetic, from five to twenty grains, as an expectorant, one to three grains.

## INFUSION OF LOBELIA.

R. *Lobelia* one ounce  
Boiling water one pint  
Infuse. A fl. ounce every half hour, till vomiting ensues. *Ellis.*

## TINCTURE OF LOBELIA.

R. *Lobelia* four ounces  
Diluted alcohol two pints  
Macerate for fourteen days, express, and filter. *U. S. Ph.*

Dose, as emetic, half fl. ounce; as antispasmodic and expectorant in asthma, one to two fl. drachms, every two or three hours.

## ETHEREAL TINCTURE OF LOBELIA.

R. *Lobelia*, in coarse powder, five ounces  
Spirit of sulphuric ether two pints  
Form tincture by displacement. *Ed. Ph.*  
Dose, the same as alcoholic tincture.

R. *Lobelia* one pound  
Alcohol four pints  
Spirit of nitric ether four pints  
sulphuric ether four ounces  
Macerate for fourteen days in a dark place, and filter. Dose, five to twenty minims. *Whitelow.*

## MIXTURE OF LOBELIA.

R. Tincture of lobelia one drachm  
Decoction of mallows six ounces  
A spoonful, every two or three hours, as an expectorant. *Radiis.*

## ACETIC EXTRACT OF LOBELIA.

R. *Lobelia* seed, bruised, eight ounces  
Diluted alcohol four pints  
Acetic acid one fl. ounce  
Macerate the seed in the diluted alcohol, to which the acid has been added, for forty-eight hours; then displace until four pints

of tincture are obtained, using diluted alcohol to expel the last portion, and then evaporate to the consistence of an extract.

*W. Procter.*

## VINEGAR OF LOBELIA.

R. *Lobelia* leaves, in powder, four ounces  
Diluted acetic acid one and a-half pints  
Macerate for twelve hours, and displace until twenty-four fluid ounces are obtained—using diluted acetic acid to expel the last portion. *W. Procter.*

## SYRUP OF LOBELIA.

R. Vinegar of lobelia six fl. ounces  
Sugar twelve ounces (av.)  
Dissolve the sugar in the vinegar, by aid of heat, remove the scum which rises, and strain. *W. Procter.*

## LUPULINA.

## LUPULIN

Is the powder attached to the strobiles of *Humulus lupulus*, and has all the properties of hops. It is a yellowish powder, mixed with portions of the scales of the hop strobiles. It is tonic, and somewhat narcotic. It is obtained by rubbing, or threshing and sifting the strobiles, or by washing these several times in different portions of water, mixing the washings, and letting the lupulin deposit, when it is to be dried. The dose is from six to ten grains.

## POWDER OF LUPULIN.

R. Lupulin one part  
Sugar two parts  
Mix. Dose, ten to twenty grains. *Foy.*

## PILLS OF LUPULIN.

R. Lupulin at will  
Rub into mass in a warm mortar, and divide into two-grain pills. *Magendie.*  
R. Lupulin two drachms  
Gum tragacanth  
Water, each, sufficient  
Make mass, and make pills of two grains.

## TINCTURE OF LUPULIN.

R. Lupulin four ounces  
Alcohol two pints  
Macerate for fourteen days, and filter. *U. S. Ph.*

Dose, one to two fl. drachms, in sweetened water.

## SYRUP OF LUPULIN.

R. Tincture of lupulin one part  
Syrup seven parts  
Mix. Dose, half an ounce to an ounce. *Foy.*

## EMULSION WITH LUPULIN.

R. Tincture of lupulin four scruples



Syrup of red poppies  
of orange flowers,  
each, one ounce  
Emulsion of almonds four ounces  
Water ten ounces  
Mix. *Beral.*

OINTMENT OF LUPULIN.  
R. Lupulin one part  
Lard three parts  
Digest, on a water-bath, for five or six  
hours, and strain. To appease the pain of  
cancerous ulcers. *Soubéiran.*

## M

## MACIS.

## MACE.

A lacinated and reticulated, smooth, thin, flexible membrane, of a saffron yellow color, which is the arillus investing the shell of the nutmeg, which, in taste and odor, it much resembles. It is an active, aromatic stimulant, but is more used for culinary purposes than in medicine. The dose is from ten grains to a scruple.

## TINCTURE OF MACE.

R. Mace one part  
Alcohol (.851) eight parts  
Macerate for eight days, express, and filter.  
*Beral.*

Dose, from thirty to forty drops, as a carminative and stomachic.

## CARMINATIVE DROPS.

R. Oil of mace half a drachm  
Nitric ether a drachm and a-half  
Mix. In flatulent colic, ten or twelve  
drops on sugar. *Radius.*

## NERVINE BALSAM.

R. Oil of mace four ounces  
Beef marrow four ounces  
Melt together, and add  
Oil of rosemary two drachms  
cloves one drachm  
Camphor one drachm  
Balsam tolu two drachms  
Dissolved in  
Rectified spirit four drachms  
As a liniment in rheumatism, &c.  
*Redwood.*

## MAGNESIUM.

This metal is not used, but many of its compounds are largely employed.

## MAGNESIA.

## MAGNESIA.

R. Carbonate of magnesia, any quantity.

Put in an earthen vessel, and expose it to a red heat for two hours, or till the carbonic acid is wholly expelled. *U. S. Ph.*

## HEAVY MAGNESIA.

R. Mix solutions of one hundred and twenty-three parts of crystallized sulphate of magnesia, and one hundred and forty-four parts of crystallized carbonate of soda; evaporate to dryness, and calcine till the carbonic acid is expelled. Dissolve out the sulphate of soda, wash, and dry.

*R. Phillips.*

## POWDER OF MAGNESIA AND RHUBARB.

R. Powdered rhubarb one scruple  
Magnesia ten grains  
Oil of cinnamon one drop  
Mix. As a purgative, to be given in sugar  
and water. *Ellis.*

## POWDER OF MAGNESIA AND SULPHUR.

R. Precipitated sulphur  
Magnesia, each, half an ounce  
Mix. A teaspoonful, three or four times  
a-day, as an aperient. *Ellis.*

POWDER OF MAGNESIA AND ORANGE  
PEEL.

R. Magnesia four drachms  
Powdered orange peel  
fennelseed, each, one drachm  
Sugar two drachms  
Mix. Ten or twelve grains, three times  
a-day, as a stimulant to the digestive organs.  
*Foy.*

## MAGNESIA MIXTURE.

R. Magnesia one drachm  
Water of ammonia one fl. drachm  
Spirit of cinnamon three fl. drachms  
Water five and a-half fl. ounces  
Mix. Recommended by Dr. James, in  
the cardialgia of pregnant women. Two  
or three teaspoonfuls, to be taken as oc-  
casion may require. *Sims.*  
R. Magnesia thirty grains

Syrup of ginger two drachms  
 Peppermint water two fl. ounces and a-half  
 Compound spirit of lavender half fl. drachm  
 Spirit of caraway half fl. ounce  
 Mix. A spoonful, every hour as an antacid. *Foy.*

## MAGNESIA AND GENTIAN.

R. Magnesia one drachm  
 Infusion of gentian six fl. ounces  
 Mix. A wineglassful, three times a-day, in cases of uric acid diathesis. *Brande.*

## MAGNESIA AND RHUBARB MIXTURE.

R. Magnesia half a-drachm  
 Powdered rhubarb two grains  
 sugar one drachm  
 Essence of peppermint six drops  
 Distilled water one fl. ounce and a-half  
 Mix. In bowel complaints of children. A teaspoonful, every two hours, till it operates. *Ellis.*

## MAGNESIÆ ACETAS.

## ACETATE OF MAGNESIA.

R. Carbonate of magnesia one hundred and twenty parts  
 Acetic acid sufficient to saturate. Evaporate till the mixture weighs three hundred parts. It forms a syrupy fluid. One ounce of this solution mixed with three ounces of syrup of oranges, constitutes the weaker solution, and one ounce and a-half to three ounces of syrup, forms the stronger solution.

*Renault.*

## MAGNESIÆ CARBONAS.

## CARBONATE OF MAGNESIA.

## SOLUTION OF MAGNESIA.

R. Sulphate of magnesia seven drachms  
 Bi-carbonate of soda nine drachms  
 Water twenty fl. ounces  
 Carbonic acid gas six volumes  
 Dissolve the salts in the water, and pass the gas through the mixture. The result will be two drachms of bi-carbonate of magnesia, in solution. *Phæbus.*

## DEWEES' CARMINATIVE.

R. Carbonate of magnesia half a drachm  
 Tincture of assafetida forty drops  
 opium twenty drops  
 Sugar one drachm  
 Distilled water one fl. ounce  
 Mix. In flatulent colic, diarrhoea, &c., of

children. Dose, twenty drops and upwards, according to age.

*Dewees.*

## DALBY'S CARMINATIVE.

R. Carbonate of magnesia two scruples  
 Oil of peppermint one drop  
 nutmeg two drops  
 aniseed three drops  
 Tincture of castor thirty drops  
 assafetida fifteen drops  
 Spirit of pennyroyal fifteen drops  
 Compound tincture of cardanum thirty drops  
 Peppermint water two ounces  
*Paris.*

R. Carbonate of potassa half an ounce  
 magnesia twelve ounces  
 Laudanum six fl. ounces  
 Oil of peppermint caraway  
 fennel, each, two fl. scruples  
 Sugar thirty-two ounces  
 Water ten pints

Triturate the oils with the sugar and magnesia, then add the remainder.

*Phil. Coll. Pharm.*

## CARBONATE OF MAGNESIA MIXTURE.

R. Carbonate of magnesia half a drachm  
 Sulphate of magnesia three drachms  
 Aromatic spirit of ammonia one fl. drachm  
 Tincture of rhubarb half fl. ounce  
 henbane half fl. drachm  
 Mint water four fl. ounces  
 Mix. As a carminative cathartic. A tablespoonful, two or three times a-day.

*Meigs.*

## MAGNESIA AND COLCHICUM.

R. Carbonate of magnesia one drachm  
 Sugar  
 Gum Arabic, each, sufficient  
 Wine of colchicum forty drops  
 Distilled water four fl. ounces

Mix. In gout and rheumatism. A tablespoonful, every hour, till it operates.

*Ellis.*

## MIXTURE OF MAGNESIA AND CAMPHOR.

R. Magnesia one drachm  
 Camphor half a drachm  
 Sugar  
 Gum Arabic, each, sufficient  
 Sulphuric ether half fl. drachm  
 Distilled water four fl. ounces

Mix. In flatulency and irritable stomach. A tablespoonful, four or five times a-day.

*Ellis.*

## MAGNESIÆ CITRAS.

## CITRATE OF MAGNESIA.

R. Citric acid at will  
Dissolve in water, and add  
Carbonate of magnesia sufficient  
to saturate; wash the powder, and dry by  
a gentle heat. Laxative, but not as ac-  
tive as the sulphate. *Beasley.*

## SOLUTION OF CITRATE OF MAGNESIA.

R. Carbonate of magnesia  
two hundred and ninety-two grains  
Crystallized citric acid  
four hundred and forty-six grains  
Water sixteen fl. ounces  
Lemon syrup two fl. ounces  
Dissolve one hundred and thirty-eight  
grains of the carbonate in two fl. ounces  
of water; holding in solution one hundred  
and seventy grains of citric acid, and pour  
it into a twelve ounce mineral water bot-  
tle. The remainder of the magnesia is  
then triturated with the rest of the water,  
and poured into the bottle, and one hun-  
dred and eighty-five grains of the acid  
added, and the bottle immediately corked  
and tied over. As soon as, with occasional  
agitation, the opaque fluid becomes slight-  
ly milky, remove the cork, filter the solu-  
tion, and pour it back into the bottle, with  
two ounces of lemon syrup, and ninety-  
one grains of citric acid; cork and wire.  
Each ounce contains one drachm of the ci-  
trate. Dose, from a half to a whole bot-  
tle. *Rabourdin.*

## CITRATE OF MAGNESIA WATER.

R. Subcarbonate of mag-  
nesia five drachms and a-quarter  
Citric acid five drachms and a-half  
Lemon syrup two drachms and a half  
Water sufficient  
to fill a Seidlitz water bottle.  
Dissolve the acid in one sixth of the wa-  
ter, triturate the carbonate with the re-  
mainder, and add to it half the acid solu-  
tion; and, on the ceasing of the efferve-  
scence, pour it into the bottle with the  
syrup; add the acid solution, and cork  
instantly. As a purgative draught.  
*Bardet.*

## MAGNESIÆ SULPHAS.

## SULPHATE OF MAGNESIA.

## CHELTENHAM SALTS.

R. Sulphate of magnesia  
Muriate of soda, each, four parts  
Sulphate of soda three parts

To be well dried before being powdered  
and mixed. Dose, half an ounce, or more,  
in solution. *Cooley.*

## SEIDLITZ WATER.

R. Sulphate of magnesia two drachms  
Chloride of magnesia eighteen grains  
Soda water twenty fl. ounces  
Dissolve. As a purgative. *Foy.*

## PURGATIVE EMULSION.

R. Sulphate of magnesia two drachms  
Flake manna one ounce  
Simple emulsion four fl. ounces  
Dissolve. A tablespoonful, every two  
hours. *Wendt.*

SULPHATE OF MAGNESIA AND TARTAR  
EMETIC.

R. Sulphate of magnesia one ounce  
Tartar emetic one grain  
Flake manna one ounce  
Lemon juice half an ounce  
Water eight ounces  
Make a solution, and strain. A table-  
spoonful, every hour, till it operates.  
*Dewees.*

## SULPHATE OF MAGNESIA AND COFFEE.

R. Sulphate of magnesia one ounce  
Powdered roasted  
coffee two drachms and a-half  
Water sixteen ounces  
Boil well in an earthen vessel, for two  
minutes; remove from fire, and let infuse  
for some minutes; then filter, or strain.  
This will destroy the bitter taste of the  
salt. *Combes.*

## CLYSTER WITH SULPHATE OF MAGNESIA.

R. Sulphate of magnesia two ounces  
Olive oil one fl. ounce  
Tepid water one pint  
Mix. One-half to be injected, and if it  
does not produce the desired effect, the  
remainder to be administered. *Ellis.*

SULPHATE OF MAGNESIA AND SULPHURIC  
ACID.

R. Sulphate of magnesia sufficient  
to saturate  
Water seven fl. ounces  
Add to solution

Diluted sulphuric acid one fl. ounce  
Dose, a tablespoonful, in a wineglassful of  
water, every hour, till it operates. *Henry.*

SULPHATE OF MAGNESIA AND ROCHELLE  
SALT.

R. Sulphate of magnesia  
Tartrate of potassa and  
soda equal parts



Dose, two to three drachms, in six ounces of water. *Christison.*

SULPHATE OF MAGNESIA AND NITRIC ACID.

R. Sulphate of magnesia half an ounce  
Tincture of jalap one fl. drachm  
Nitric acid two drops  
Mint water two fl. ounces  
Mix. To be taken for a draught. *Ellis.*

MAGNESII SULPHURETUM.

SULPHURET OF MAGNESIA.

SYRUP OF SULPHURET OF MAGNESIA.

R. Sulphuret of magnesia half an ounce  
Fennel water six ounces  
Dissolve, strain, and add  
Sugar fifteen ounces  
Said to be useful in chronic exanthemata, whooping-cough, &c. Dose, a spoonful, occasionally. *Radiis.*

MAGNESIÆ PHOSPHAS.

PHOSPHATE OF MAGNESIA.

R. Magnesia at will  
Phosphoric acid sufficient  
to saturate; filter, and evaporate to dryness. *Neimann.*

Stated to be useful in rachitis, in doses of ten to twenty grains.

MAGNOLIA.

The barks of several species of Magnolia are employed as stimulating tonics in the United States, but more especially that of *M. glauca*. It is a stimulating, bitter tonic, with some diaphoretic powers, and the decoction has been used with some success in intermittent fevers and rheumatism, as has also a tincture of the cones. Dose, in powder, half a drachm to a drachm.

TINCTURE OF MAGNOLIA.

R. Recently dried bark or cones of magnolia four ounces  
Diluted alcohol one pint  
Macerate for a week, express, and filter.  
In chronic rheumatism. *Beasley.*

MALTUM.

MALT.

Malt is barley germinated by warmth and moisture, and then subjected to such a degree of heat as to destroy the vital principle. It contains sugar, gum, and hordein, and is principally used in the manufacture of malt liquors.

INFUSION OF MALT.

R. Ground malt one pint  
Scalding water three pints  
Infuse for two hours, strain, and add sugar or lemon juice, if required. *Ellis.*  
Much prescribed by the late Dr. Parrish, as a drink in inflammatory fevers.

EMOLLIENT CLYSTER.

R. Ground malt  
Mallow root  
Pearl barley, each, two drachms  
Water one quart  
Boil down to a pint, and strain. *Phabius.*

MALVA.

COMMON MALLOW.

Several species of Mallow are recognized as official in the European Pharmacopœias, and, although they are very similar in their properties, that most generally employed is the *M. sylvestris*, the leaves and flowers being the official parts. They are emollient and demulcent, but are seldom or never employed in this country.

MANGANESIUM.

MANGANESE.

This metal is never employed in medicine, but several of its oxides and salts have obtained some celebrity.

MANGANESII CARBONAS.

CARBONATE OF MANGANESE.

R. Oxide of manganese at will  
Wash in very dilute muriatic acid, dissolve in strong muriatic acid, and evaporate to dryness. Dissolve part in water, and precipitate with carbonate of soda; wash precipitate, and digest it with a solution of the rest of the salt. Filter, and precipitate by carbonate of soda; wash, and dry. *Beasley.*

MANGANESII MURIAS.

MURIATE OF MANGANESE.

R. Muriatic acid at will  
Carbonate of manganese sufficient  
to saturate; evaporate, and crystallize. Preserve in closely-stopped bottles. A solution in water has been praised as a gargle in aphthous sore throat. *Jourdain.*

PILLS OF MURIATE OF MANGANESE.

R. Muriate of manganese two scruples  
Gum Arabic  
Extract of liquorice, each, one scruple

Mix, and form pills of two grains. Advised in obstinate cutaneous affections, in doses of from five to twenty. *Augustin.*

## MANGANESII OXIDUM.

## OXIDE OF MANGANESE.

## POWDER OF OXIDE OF MANGANESE.

R. Oxide of manganese two grains  
Magnesia one scruple  
Mix. To be taken every three hours, in chlorosis. *Brera.*

## BOLUS OF OXIDE OF MANGANESE.

R. Oxide of manganese fourteen grains  
Extract of savine  
Aloes, each, six grains  
Mix, and divide into six boluses; to be taken during the day, as an emmenagogue. *Niemann.*

## OINTMENT OF OXIDE OF MANGANESE.

R. Oxide of manganese one part  
Lard two parts  
*Giordano.*

## OINTMENT OF OXIDE OF MANGANESE AND SULPHUR.

R. Oxide of manganese  
Sulphur, each, one ounce  
Soap one ounce  
Lard three drachms  
Mix. *Beasley.*

Both these ointments have been recommended in porrigi, and other skin diseases.

## MANGANESII SULPHAS.

## SULPHATE OF MANGANESE.

R. Carbonate of manganese at will  
Diluted sulphuric acid sufficient  
to saturate; evaporate, and crystallize.  
Dose, one to two drachms, in half a pint of water; to be taken before breakfast, as a cholagogue cathartic. *Beasley.*

## MANNA.

## MANNA.

This is the concrete juice of several species of *Fraxinus*, but principally from the *F. ornus*, or *Ornus Europæa*; a small tree found in the south of Europe.

*Sex. Syst.* Diand. monog. *Nat. Syst.* Oleraceæ.  
Linn. Sp. Pl. 1510. Griffith, Med. Bot. 445.

There are several varieties of manna—flake, common or in sorts, and fat. The first is the best and purest. It consists of sugar, a peculiar principle called mannite, and a viscous, nauseous matter. Manna is a gentle laxative, but some-

times causes flatulence and pain. Dose, for an adult, one to two ounces; for children, one to four drachms.

## LOZENGES OF MANNA.

R. Mallow root  
Water, each, four ounces  
Boil a short time, and add  
Manna twelve ounces  
When dissolved, strain, and add  
Sugar six pounds  
Opium, dissolved in  
water, twelve grains  
Evaporate to the consistence of an electuary, and add  
Orange-flower water three ounces  
Essence of bergamot  
citron, each, four drops  
Evaporate to proper consistence, pour on a marble slab, and divide into lozenges. *Guibourt.*

## SYRUP OF MANNA.

R. Manna six ounces  
Water twelve fl. ounces  
Dissolve, and strain, then add  
Sugar one pound  
Evaporate to syrup. *Pidereau.*

## EMULSION OF MANNA.

R. Sweet almonds half an ounce  
Manna two ounces  
Syrup of peach flowers one fl. ounce  
Infusion of liquorice four fl. ounces  
Orange-flower water half fl. ounce  
Make an emulsion. *Radius.*

R. Manna  
Oil of almonds, each, one ounce  
Carbonate of potassa twelve grains  
Cinnamon water  
Water, each, three fl. ounces  
Rub the first three ingredients together, and gradually add the waters. Two fl. ounces to be taken daily, in divided doses, in inflammation of the kidneys. *Babington.*

## MANNA MIXTURE.

R. Sulphate of magnesia one ounce  
Manna six drachms  
Tincture of  
senna one fl. drachm and a-half  
Boiling water five fl. ounces  
Mix. As a purge. *Ainslie.*  
R. Manna one ounce  
Sulphate of soda one ounce and a-half  
Water six fl. ounces  
*Augustin.*  
R. Manna four ounces  
Senna one ounce  
Cremor tartar half an ounce

Anise half an ounce  
Boiling water four pints  
Digest for some time, and strain.  
*Span. Pharm.*

## MANNITE.

## MANNITE.

R. Common manna six pounds  
Distilled water three pints  
White of egg one  
Mix, and boil for a few minutes; strain when cold; press impure mannite in a cloth; mix it with its weight of water, and again press. Dissolve in boiling water, with animal charcoal, filter, evaporate to a pellicle, and set aside to crystallize.

*Ruspini.*

Dose, from two drachms to two ounces.

## MARANTA.

## ARROWROOT.

Arrowroot is the fecula of the roots, or rhizomes of many plants, but that in common use is derived from the *Maranta arundinacea*, a native of the West Indies.

*Sex. Syst.* Monand. monog. *Nat. Syst.* Marantaceæ.

Linn. Sp. Pl. 2. Griffith, Med. Bot. 637.

West Indian arrowroot is a light white powder, tasteless and inodorous. It has firm feel, and crackles when pressed. It is nutritious and demulcent, and is an article of diet well suited to the sick and convalescent, especially in bowel complaints. It is prepared for use by adding to it a certain proportion of boiling water, usually about a pint to a tablespoonful of the fecula.

## WATER ARROWROOT.

R. Rub the arrowroot with a little cold water, till well mixed; then pour boiling water over it, stirring constantly; afterwards boil for five minutes. Sweeten with white sugar, and flavor with lemon juice, or some aromatic; if wine be added, none of the astringent kinds should be used.

*Thomson.*

## MILK ARROWROOT.

R. Arrowroot a tablespoonful  
Sweet milk  
Boiling water, each, half a pint  
Proceed as with water arrowroot. *Ellis.*

R. Milk fifteen fl. ounces  
Sugar two ounces  
Arrowroot one ounce  
Proceed as above. *Beral.*

## ARROWROOT PUDDING.

Rub a tablespoonful of arrowroot with a

little cold water, and add to it, stirring constantly, a pint of boiling milk; with this mix one egg and three teaspoonfuls of sugar, previously beaten together. This may be boiled or baked, and forms a good diet in convalescence. *Thomson.*

## BEEF TEA ARROWROOT.

This is made in the same manner as the water arrowroot, except that beef tea is used in the boiling state instead of water, and that the mixture is to be boiled twenty minutes instead of five. *Thomson.*

## MARRUBIUM.

## HOREHOUND.

Horehound, *M. vulgare*, is a small, herbaceous plant, a native of Europe, and naturalized in some parts of this country.

*Sex. Syst.* Didynam. gymnos. *Nat. Syst.* Lamiales.

Linn. Sp. Pl. 816. Griffith, Med. Bot. 512.

The whole herb is officinal. It has a strong and peculiar odor in the fresh state, which is almost lost on drying. Its taste is bitter, and somewhat acrid. It is tonic, emmenagogue, antispasmodic, and, in large doses, laxative. The dose of the powder is from thirty grains to a drachm.

## EXTRACT OF HOREHOUND.

R. Powdered horehound sufficient  
Exhaust by the process of displacement, and evaporate to proper consistence. The dose is from a scruple to half a drachm.

## COMPOUND DECOCTION OF HOREHOUND.

R. Dried horehound one ounce  
Bruised liquorice root  
Flaxseed, each, half an ounce  
Boiling water one pint and a-half  
Macerate for four hours, and strain. Dose, from a fl. ounce to two fl. ounces, in catarrh. *Steph. and Church.*

## PECTORAL MIXTURE.

R. Extract of horehound  
cough grass, each,  
two drachms  
Decoction of dandelion ten fl. ounces  
Oxymel of squills  
Syrup of fennel, each, two fl. ounces  
Mix. A tablespoonful occasionally. *Augustin.*

## SYRUP OF HOREHOUND.

R. Dried horehound one ounce  
Horehound water two pints  
Digest for two hours, express, and add  
Sugar four pounds  
Form a syrup. *Cottureau.*



## HOREHOUND CANDY.

R. Expressed juice of horehound one pint  
 Sugar ten pounds  
 Boil to proper consistence, pour into  
 moulds, or on marble slab, and divide.  
*Cooley.*

Much used to allay irritation of throat, in catarrh.

## MASTICHE.

## MASTIC.

Mastic is a concrete, resinous exudation from the *Pistacia lentiscus*; a small tree, a native of most of the countries bordering on the Mediterranean.

*Sex. Syst.* Diœc. pentand. *Nat. Syst.* Anacardiaceæ.

Linn. Sp. Pl. 1454. Griffith, Med. Bot. 186.

Mastic occurs in yellowish, semi-transparent, brittle grains or tears, of mild, agreeable smell, and a resinous but not unpleasant taste. It is much used by the Turks as a masticatory to sweeten the breath and to strengthen the gums. It is more employed in the arts as the basis of varnishes, than in medicine.

## MASTIC DENTIFRICE.

R. Powdered mastic  
 Prepared chalk, each, two drachms  
 Powdered orris root half an ounce  
 Oil of roses three drops  
 Mix. *Phabus.*

## AROMATIC MASTIC COLLUTORY.

R. Mastic two drachms  
 Balsam of Peru half a drachm  
 Gum Arabic two drachms  
 Orange-flower water six fl. ounces  
 Make an emulsion, and add  
 Tincture of myrrh two fl. drachms  
*Phabus.*

## ANTI-ODONTALGIC PASTE.

R. Mastic  
 Sandarach, each, two drachms  
 Kino ten grains  
 Opium two grains  
 Oil of rosemary eight drops  
 Spirit of horseradish sufficient  
 Mix, and form a paste. Used to fill decayed teeth. *Gassicourt.*

## ETHEREAL TINCTURE OF MASTIC.

R. Mastic four parts  
 Sulphuric ether one part  
 Dissolve. To fill the cavity of carious teeth, for which purpose a small dossil of cotton is saturated with it, and introduced into the cavity. *Soubeiran.*

## PICTURE VARNISH.

R. Mastic three hundred and sixty parts  
 Venice turpentine forty-five parts

Camphor fifteen parts  
 Spirit of turpentine one thousand parts  
 Dissolve with heat. *Redwood.*

## CRYSTAL VARNISH.

R. Mastic three ounces  
 Alcohol one pint  
 Dissolve. Used to fix pencil drawings.  
*Cooley.*

## MATICO.

## MATICO.

This is the leaves of a Peruvian plant, or plants; in most cases of the *Piper angustifolium* (*Arianthe elongata*).

*Sex. Syst.* Diand. trigyn. *Nat. Syst.* Piperaceæ.

The leaves, as found in commerce, are strongly veined, reticulated; of a greenish ash color; mixed with fragments of the stem and flower spikes; of a somewhat aromatic odor, and a warm, spicy taste. They have attained much celebrity as a hemostatic, and have also been given in mucous and other discharges. As a styptic, they are applied in substance to the bleeding part.

## INFUSION OF MATICO.

R. Matico one ounce  
 Boiling water one pint  
 Infuse for two hours. Dose, two table-spoonfuls, two or three times a-day, or oftener. In hemorrhagic and other discharges. *Jeffreys.*

## INFUSION OF MATICO AND SENNA.

R. Matico  
 Senna, each, two drachms  
 Boiling water one pint  
 Infuse, and strain. Dose, one fl. ounce and a-half, repeatedly. *Watmough.*

## DECOCTION OF MATICO.

R. Matico one ounce  
 Water one pint  
 Boil for ten or fifteen minutes, and strain. Given as above. *Jeffreys.*

## TINCTURE OF MATICO.

R. Matico two and a-half ounces  
 Diluted alcohol one pint  
 Macerate for fourteen days, and strain. *Lane.*

Dr. Jeffreys directs three ounces of matico. Dose, from thirty to sixty drops, in water. In hemorrhagic discharges, &c.

## SYRUP OF MATICO.

R. Matico four ounces  
 Diluted alcohol one pint  
 Make tincture by displacement, evaporate to one half; add  
 Sugar sufficient  
 and form syrup. *Ruschenberger.*

Used in same cases as above. Dose, one to two fl. drachms.

### OINTMENT OF MATICO.

R. Powdered matico three drachms  
 opium three grains  
 Lard one ounce  
 Mix. As an application to hemorrhoids.  
*Young.*

## MATRICARIA.

### GERMAN CHAMOMILE.

This is the flowers of *M. chamomilla*, a small, annual, herbaceous plant, native of many parts of Europe.

*Sex. Syst.* Syngen. super. *Nat. Syst.* Astera-ceæ.

Linn. Sp. Pl. 1256. Stokes, Bot. Mat. Med. iv. 238.

The flowers, which are the officinal part, are smaller than those of the true chamomile. They have a strong, penetrating, unpleasant odor, which is much diminished by drying. Their taste is bitter and somewhat nauseous. The medical properties are much the same as those of chamomile, and it is given in the same manner.

## MEL.

### HONEY.

This is a peculiar fluid, prepared from flowers by the *Apis mellifica*, or honey-bee.

In a recent state it is fluid, but by age concretes into a soft, granular mass. It has a peculiar, somewhat aromatic odor, and a sweet taste, followed by faint acidity. It resembles sugar in its properties, but is more laxative. It is principally used in medicine as a vehicle.

### CLARIFIED HONEY.

R. Honey at will  
 Melt by means of a water-bath, and remove the scum.  
*U. S. Pharm.*

### PREPARED HONEY.

R. Clarified honey half a pint  
 Diluted alcohol one pint  
 Prepared chalk half an ounce  
 Mix the honey and alcohol, add the chalk, let the mixture stand for two hours, occasionally stirring. Heat to boiling, filter, and evaporate on water-bath, so that when cold the sp. gr. will be 1.32.  
*U. S. Pharm.*

### OXYMEL.

R. Honey two pounds  
 Distilled vinegar one pint  
 Boil to consistence of syrup, removing scum.  
*Dub. Pharm.*

### HYDROMEL.

R. Honey two parts

Water thirty-two parts  
 Dissolve, and strain. A refreshing and slightly laxative drink.  
*Foy.*

### PECTORAL HYDROMEL.

R. Washed Iceland moss two ounces  
 Hyssop leaves half an ounce  
 Hydromel two pounds  
 Macerate for five days, strain, and add  
 Sugar three ounces  
 In catarrh, &c., one or two spoonfuls occasionally.  
*Foy.*

### EXPECTORANT MIXTURE.

R. Honey  
 Fresh butter, each, two ounces  
 Mix, and melt over a gentle fire. A spoonful occasionally.  
*St. Marie.*

### CEROMEL.

R. Yellow wax one ounce  
 Honey four ounces  
 Melt the wax, and add the honey, stirring well. As an application to indolent ulcers.  
*Van Mons.*

### HONEY WATER.

R. Honey two parts  
 Washed sand three parts  
 Introduce into a retort, and distil on a sand-bath, and remove the oil that floats on the product. Aperient and diuretic; in doses of a scruple to half a drachm.  
*Spielmann.*

R. Rectified spirit eight pints  
 Rose water two pints  
 Orange-flower water two pints  
 Oil of cloves half an ounce  
 lavender half an ounce  
 bergamot two drachms  
 sandal wood one drachm  
 Honey one ounce  
 Tincture of saffron one ounce  
 Musk ten grains  
 Macerate for a week, and filter. Used as a perfume.  
*Gray.*

R. Honey  
 Coriander, each, eight ounces  
 Fresh lemon peel one ounce  
 Cloves six drachms  
 Nutmeg  
 Benzoin  
 Storax, each, half an ounce  
 Vanilla three drachms  
 Rose water  
 Orange-flower water, each, five ounces  
 Alcohol forty-eight ounces  
 Distil by means of a water-bath. *Guibourt.*

## MELISSA.

## BALM.

Several species have been used in medicine, but the only one that is official in this country is *M. officinalis*, a small herbaceous plant, which is a native of the South of Europe, and is very generally cultivated in our gardens.

*Sex. Syst.* Didynam. gymnos. *Nat. Syst.* Lamiales.

*Linn. Sp. Pl.* 827. *Stokes, Bot. Mat. Med.* iii. 365.

The whole herb is used; it has an agreeable odor, somewhat like that of lemons, and an aromatic, slightly bitter taste. Its medicinal properties are very slight, but it communicates an agreeable flavor to infusions.

## COMPOUND SPIRIT OF BALM.

R. Fresh balm                    one pound and a-half  
Lemon peel                        four ounces  
Cinnamon  
Cloves  
Nutmegs, each,                    two ounces  
Angelica, dried,  
Coriander, each,                    one ounce  
Alcohol, .869,                    eight pounds  
Macerate for two days, and distil.

Used as a perfume.

R. Fresh mint                    thirteen ounces  
Sage                                three ounces and a-half  
Angelica                            eighteen drachms  
Hyssop  
Marjoram, each,                    fourteen drachms  
Thyme                                thirteen drachms  
Cinnamon  
Coriander, each,                    twelve drachms  
Rosemary  
Cloves  
Nutmeg, each,                    ten drachms  
Anise                                half an ounce  
Lemon peel                        one drachm  
Alcohol, (.927)

one hundred and forty ounces  
Macerate for two days, distil, and rectify.

*Guibourt.*

This form of the compound spirit of balm is known as the *Eau des Carmes*. It is used as a perfume, stomachic, and stimulant.

R. Compound spirit of balm sixteen parts  
Spirit of mint  
          rosemary, each, twelve parts  
          sage                                nine parts  
          thyme                              eight parts

Mix. This is known as *Eau de Dardel*, and is used as above. *Guibourt.*

## ANTI-HYSTERIC WATER.

R. Fresh balm                    one pound  
Laurel berries  
Cinnamon, each,                    one ounce  
Myrrh                                half an ounce

Castor                                two drachms  
White wine                        twelve pounds  
Digest for some time, and distil off one-half. As a stimulant, and antispasmodic in hysteria. *Wirttemberg Ph.*

## MENTHA PIPERITA.

## PEPPERMINT.

Many species of *Mentha* are used in medicine, but two only are recognized in our pharmacopœia, the *M. piperita* and *M. viridis*, both natives of Europe, and naturalized in this country.

*Sex. Syst.* Didynam. gymnos. *Nat. Syst.* Lamiales.

*Smith, Eng. Bot.* 687. *Griffith, Med. Bot.* 502.

The whole plant is used; it has a peculiar, aromatic odor, and a balsamic, pungent, camphorated taste, followed by a sensation of coolness. It is aromatic, carminative, and stimulant, and is much employed to expel flatus, obviate nausea, &c.

## OIL OF PEPPERMINT.

R. Peppermint                    at will  
Water                                sufficient  
Distil, and collect the oil that floats on the product. *Par. Cod.*

## ESSENCE OF PEPPERMINT.

R. Oil of peppermint            two fl. ounces  
Alcohol                              one pint  
Mix. *U. S. Ph.*

## PEPPERMINT LOZENGES.

R. Oil of peppermint            one drachm  
Water of peppermint            sufficient  
Sugar                                twelve ounces  
Mix, and form pastilles. *Cottreau.*

## CARMINATIVE MIXTURE.

R. Essence of peppermint      one fl. ounce  
Peppermint water                four fl. ounces  
Syrup of mallows                three fl. ounces  
Oil of cinnamon                two drops  
          peppermint                three drops  
Mix. A spoonful every two hours, in convulsive hiccup. *Alibert.*

R. Magnesia                        half a drachm  
Peppermint  
          water                        two and a-half fl. drachms  
Compound spirit of  
          lavender                    half fl. drachm  
Spirit of carraway                four fl. drachms  
Syrup of ginger                two fl. drachms  
Mix. A spoonful occasionally, as an antacid and carminative. *Paris.*

## MENTHA VIRIDIS.

## SPEARMINT.

This species, like the last, although a native of



Europe, has become extensively naturalized in many parts of the United States, principally in low, wet situations. It is less powerfully aromatic, and pungent than peppermint, but is more agreeable in odor and taste to most persons. It has the same properties, and its preparations are the same as of that article.

#### INFUSION OF MINT.

R. Dried spearmint two drachms  
Boiling water sufficient  
to afford six fl. ounces of strained infusion.  
*Dub. Ph.*

#### COMPOUND INFUSION OF MINT.

R. Dried spearmint two drachms  
Boiling water sufficient  
to afford six fl. ounces of strained infusion.  
Add

Sugar two drachms  
Oil of spearmint three drops  
Dissolved in

Compound tincture of  
cardamom half fl. ounce  
To allay nausea, &c. Dose, one to two fl.  
ounces. *Dub. Ph.*

#### ARQUEBUSADE WATER.

R. Dried mint  
angelica tops, each, one pound  
wormwood half a pound  
Angelica seeds five ounces  
Oil of juniper half a drachm  
Spirit of rose-  
mary three pints and a-half  
Rectified spirit five gallons  
Water four gallons

Mix, and distil six gallons. Much celebrated as a vulnerary, for contusions, and for cleansing and healing ulcers and wounds, especially those caused by fire-arms. *Redwood.*

### MENYANTHES.

#### BUCKBEAN.

The *M. trifoliata*, or buckbean, is an aquatic, herbaceous plant, with ternate leaves, a native of both Europe and North America.

*Ser. Syst.* Pentand. monog. *Nat. Syst.* Gentianaceæ.

Linn. Sp. Pl. 207. Griffith, Med. Bot. 464.

All parts of the plant are medicinal. They are very bitter, but have very little odor. In small doses, the buckbean is tonic and astringent, in large ones cathartic, and even emetic. As a tonic, the dose of the powdered leaves, or root, is from twenty to thirty grains.

#### INFUSION OF BUCKBEAN.

R. Buckbean one ounce  
Boiling water one pint  
Macerate for two hours, and strain. Dose, one to two fl. ounces. *Saunders.*

#### EXTRACT OF BUCKBEAN.

R. Clarified juice of buckbean at will  
Evaporate to the proper consistence.  
*Guibourt.*

Dose, ten to fifteen grains.

#### COMPOUND PILLS OF BUCKBEAN.

R. Extract of buckbean  
valerian, each, two drachms  
Soap half an ounce  
Rhubarb one drachm and a-half  
Syrup sufficient  
Mix, and make pills of two grains. Ten, three times a-day, in a costive condition of the bowels. *Vogel.*

#### MIXTURE OF BUCKBEAN, FUMITORY, &c.

R. Extract of buckbean  
fumitory  
couch grass, each,  
half an ounce  
Chamomile water ten fl. ounces  
Compound infusion of  
horseradish four fl. ounces  
Sulphuric acid half a drachm  
Mix. Two tablespoonfuls a-day, as an antiscorbutic. *Selle.*

#### DIURETIC MIXTURE.

R. Extract of buckbean half an ounce  
Vinegar of squills two fl. ounces  
Tincture of assafetida half fl. ounce  
Mix. Dose, thirty drops, three times a-day, as a diuretic. *Augustin.*

### MEZEREUM.

#### MEZEREON.

This is the bark of several species of *Daphne*; two species of which are official in the U. S. Pharm., the *D. mezereum* and *D. gnidium*, both shrubs indigenous to Europe. The first being the most generally used.

*Ser. Syst.* Octand. monog. *Nat. Syst.* Thymelacææ.

Linn. Sp. Pl. 509. Griffith, Med. Bot. 560.

The officinal portion is the bark. This, as found in the shops, is in long, narrow strips, of a grayish color and fibrous texture. It is almost inodorous, with a sweetish taste at first, soon becoming extremely acrid. It is used as an external irritant and stimulant, and internally as an alterative diaphoretic.

#### DECOCTION OF MEZEREON.

R. Mezereon two drachms  
Water three pints  
Boil till reduced to a quart. Add  
Liquorice root half an ounce  
Strain. Four to eight fl. ounces a-day. *Thomson.*

In syphilitic affections, especially when there are night-pains and eruptions.

## COMPOUND DECOCTION OF MEZEREON.

R. Mezereon	two drachms
Bittersweet	half an ounce
Burdock	two ounces
Water	four pints

Boil down to three pints, and add

Liquorice root two drachms

Strain. In the same cases as above, and in obstinate diseases of the skin.

*Van Mons.*

## EXTRACT OF MEZEREON.

R. Mezereon	three parts
Alcohol	five parts

Digest, and repeat the operation twice, with the same proportion of alcohol, each time; unite the tinctures; filter, and distil off three-fourths of the spirit; filter the residuc, retaining what is left on the filter.

*Ham. Pharm.*

## GREEN OIL OF MEZEREON.

R. Extract of mezereon	at will
Sulphuric ether	sufficient

Macerate, express, and permit the ether to evaporate.

*Guibourt.*

## MEZEREON OINTMENT.

R. Extract of mezereon	one part
Alcohol	
White wax, each,	eight parts
Lard	seventy-two parts

Dissolve the extract in the alcohol; add the wax and lard; heat to expel the alcohol, and strain.

*Guibourt.*

R. Green oil of mezereon	one part
White wax	sixteen parts
Lard	one hundred and sixty parts

Mix, and melt by means of a water-bath.

Used as a stimulating application to blistered surfaces, and to indolent ulcers.

## MONARDA.

## HORSEMINT.

Almost all the species of *Monarda* are possessed of medicinal properties, but one only is recognized as officinal; the *M. punctata*. This is a native, perennial, herbaceous plant, with yellow flowers, spotted with brown; usually growing in sandy soil.

*Ser. Syst.* Diand. monog. *Nat. Syst.* Lamiacæ.

Linn. Sp. Pl. 126. Griffith, Med. Bot. 510.

The whole plant is aromatic, and abounds in a pungent, volatile oil. It is used in infusion, for flatulent colic, and as an emmenagogue.

## OIL OF HORSEMINT.

R. Fresh horsemint	at will
Water	sufficient

Distil, and collect the oil that floats on the product.

Internally, as a carminative; in doses of two or three drops, with sugar and water. Externally, as a rubefacient, in low states of fever, rheumatism, &c. In most cases it must be diluted.

## OIL OF HORSEMINT LINIMENT.

R. Oil of horsemint	half an ounce
Tincture of camphor	two ounces
Laudanum	two drachms

Mix. As a rubefacient application.

*Atlee.*

## MONESIA.

## MONESIA.

This is the extract of an unknown tree, perhaps a *Chrysophyllum*, coming from South America. It is in the form of hard, thick cakes, having at first a sweet taste, which soon becomes astringent and acrid. It is of a dark brown color, friable, and soluble in water. It has been used with success in various discharges, especially of a chronic character; in chronic bronchitis, &c., in doses of two to ten grains, frequently repeated; also as an application to atonic ulcers.

## PURIFIED MONESIA.

R. Monesia, bruised,	one pound
Boiling water	six pints

Infuse for twenty-four hours, stirring occasionally; decant, and evaporate by a water-bath.

*Beasley.*

## MONESIA MIXTURE.

R. Monesia	two scruples
Water	seven and a-half fl. ounces
Compound tincture of cardamoms	half a fl. ounce

Mix, and dissolve. Dose, a tablespoonful.

*Neligan.*

## SYRUP OF MONESIA.

R. Monesia	one drachm
Water	one fl. drachm
Boiling syrup	twelve fl. ounces

Mix. Dose, half a fl. ounce.

*Derosne.*

## COMPOUND SYRUP OF MONESIA.

R. Hot syrup of monesia	sixteen fl. ounces
Orange-flower water	half a fl. ounce
Extract of poppies	sixteen grains

Mix. As above.

*Derosne.*

## TINCTURE OF MONESIA.

R. Monesia	one ounce
Diluted alcohol	nine and a half fl. ounces
Water	two fl. ounces

Macerate, and decant.

*Donovan.*

R. Monesia	half an ounce
Alcohol	two fl. ounces
Water	seven and a-half fl. ounces

*St. Ange.*

As above. Used in injections; half a drachm to a drachm, to six fl. ounces of water.

### MONESIA OINTMENT.

R. Monesia	one drachm
Lard	one ounce
Mix.	<i>St. Ange.</i>
R. Monesia	
Water, each,	one part
White wax	two parts
Oil of almonds	four parts
Mix.	<i>Derosne.</i>

As an application to indolent ulcers.

## MORA.

### MULBERRIES.

Two species of *Morus* produce fruit which appears to have identical properties: *M. nigra*, a native of Europe, which is officinal in the foreign Pharmacopœias; and *M. rubra*, a native of the United States.

*Sex. Syst.* Monœc. tetrand. *Nat. Syst.* Moracæ.

Mulberries are refreshing and laxative, and form the basis of a grateful drink in febrile cases.

### SYRUP OF MULBERRIES.

R. Strained juice of mulberries	one pint
Sugar	two and a-half pounds
Dissolve with a gentle heat, set aside for twenty-four hours, remove the scum, and decant.	<i>Lond. Ph.</i>

As an addition to cooling drinks in fever.

### ROB OF MULBERRIES.

R. Strained juice of mulberries	at will
Evaporate to the consistence of honey.	<i>Austr. Ph.</i>

Used as a detersive application to ulcers, and as an addition to gargles.

## MORPHIA.

### MORPHIA.

R. Opium, sliced,	one pound
Distilled water	
Alcohol, each,	sufficient
Solution of ammonia	six fl. ounces
Macerate the opium with four pints of the water, for twenty-four hours; and having worked it with the hand, digest for twenty hours, and strain. Operate on the residue twice, in the same manner. Mix the infusions, evaporate to six pints, and filter; then add five pints of alcohol, and afterwards three fl. ounces of the solution of ammonia mixed with a half pint of alcohol. Let rest for twenty-four hours, add the rest of the ammonia, mixed as be-	

fore, and set aside for twenty-four hours to crystallize. Purify the crystals by boiling them with two pints of alcohol, till dissolved, and filtering while hot through animal charcoal, and recrystallizing.

*U. S. Ph.*

R. Mix a concentrated infusion of opium with milk of lime (in which the lime is one-fourth the weight of the opium used); heat the mixture to boiling; filter while boiling hot, through linen, and add an excess of muriate of ammonia. As it cools, the morphia is precipitated.

*Mohr.*

R. Muriate of morphia	one ounce
Distilled water	one pint
Dissolve, and add	

Solution of ammonia five fl. drachms mixed with one fl. ounce of distilled water; shake together; wash the precipitate with distilled water, and dry by a gentle heat.

*Lond. Ph.*

One-sixth of a grain is about equal in power to a grain of opium.

### PILLS OF MORPHIA.

R. Morphia	one grain
Conserve of roses	sufficient
Mix, and make six pills.	<i>Magendie.</i>

### MORPHIA DRAUGHT.

R. Morphia	a quarter of a grain
Syrup of poppies	one drachm
Distilled water	one fl. ounce
Mix. At bedtime.	<i>Brera.</i>

### INJECTION OF MORPHIA.

R. Morphia	two grains
Almond oil	
Oil of lilies, each,	half an ounce

Mix.

R. Morphia	two grains
Yolk of egg	one
Oil of chamomile	
poppies, each,	one ounce
Mix. To ease pain in earache, in acute gonorrhœa and hemorrhoids.	<i>Brera.</i>

## MORPHIÆ ACETAS.

### ACETATE OF MORPHIA.

R. Powdered morphia	one ounce
Distilled water	half a pint
Acetic acid	sufficient
Mix the morphia with the water, and drop in the acid, constantly stirring, till the morphia is saturated and dissolved. Evaporate to consistence of syrup on a water-bath. Dry by a gentle heat, and powder.	<i>U. S. Ph.</i>

Dose, one-eighth to a quarter of a grain.



## COMPOUND POWDER OF ACETATE OF MORPHIA.

R. Acetate of morphia                    one grain  
 Powdered foxglove                    six grains  
 Extract of pulsatilla                twelve grains  
 Sugar                                        one drachm  
 Mix, and form thirty-six powders. Four  
 a-day, in the cough and sleeplessness of  
 consumptive patients. *Cadet.*

## BOLUS OF ACETATE OF MORPHIA.

R. Acetate of morphia                    one grain  
 Olive oil                                    ten drops  
 Crumb of bread  
 Honey, each,                            sufficient  
 Mix, and make six boluses. *Brera.*

## PILLS OF ACETATE OF MORPHIA.

R. Acetate of morphia                    one grain  
 Conserve of roses                    sixteen grains  
 Mix, and make eight pills. *Mialhe.*

R. Acetate of morphia                    one grain  
 Golden sulphuret of  
 antimony  
 Extract of aconite, each,            two grains  
 Powdered liquorice  
 Honey, each,                            sufficient  
 Mix, and make eight pills. *Brera.*

R. Acetate of morphia                    one grain  
 Powdered digitalis                    six grains  
                                  camphor            ten grains  
                                  gum Arabic        eight grains  
 Syrup of tolu                            sufficient  
 Beat into mass, and divide into six pills.  
 One may be taken every three hours.  
*A. T. Thomson.*

R. Acetate of morphia                    fifteen grains  
 Ammon. sulphate of  
 copper                                        half a drachm  
 Inspissated bile  
 Powdered quassia, each, four scruples  
 Mix, and make one hundred pills. Five,  
 morning and evening, in diabetes mellitus.  
*Brendt.*

## SOLUTION OF ACETATE OF MORPHIA.

R. Acetate of morphia                    sixteen grains  
 Acetic acid                                two fl. drachms  
 Distilled water                        six fl. drachms  
 Mix. Dose, six to twenty-four drops.  
*Dunghison.*

## ALCOHOLIC SOLUTION OF MORPHIA.

R. Acetate of morphia                    sixteen grains  
 Alcohol                                    one fl. ounce  
 Dissolve. *Cottureau.*

## SYRUP OF ACETATE OF MORPHIA.

R. Acetate of morphia                    four grains

Dissolve in a small portion of water, and a  
 few drops of acetic acid, add to

Syrup                                        sixteen ounces  
*Par. Cod.*

## MIXTURE WITH ACETATE OF MORPHIA.

R. Solution of acetate of  
 morphia                                    twenty drops  
 Lactucarium                            ten grains  
 Infusion of chamomile                five ounces  
 Syrup of marsh mallow            half an ounce  
 Mix. Dose, a spoonful. *Beral.*

## CLYSTER WITH ACETATE OF MORPHIA.

R. Starch                                    one drachm  
 Hot water                                one pint  
 Acetate of morphia                    one grain  
 Mix. In chronic diarrhœa. *Cadet.*

## OINTMENT OF ACETATE OF MORPHIA.

R. Acetate of morphia six to eight grains  
 Lard                                        one to two drachms  
 Mix. As a friction in violent rheumatic  
 pains. *Foy.*

R. Acetate of morphia                    four grains  
 Mercurial ointment  
 Simple ointment, each, two drachms  
 Mix. In frictions on the labia; twice a-  
 day, in cancer of the uterus. *Hildenbrand.*

## MORPHIÆ BIMECONAS.

## BIMECONATE OF MORPHIA.

R. Meconic acid                        two hundred grains  
 Boiling water                            sufficient  
 Dissolve, and add  
 Morphia                                    sufficient  
 to saturate. Evaporate to dryness.  
*Squire.*

Dose, one-fourth of a grain.

## SOLUTION OF BIMECONATE OF MORPHIA.

R. Bimeconate of morphia            ten grains  
 Rectified spirit                        one fl. drachm  
 Distilled water                        thirteen fl. drachms  
 Mix. About the strength of laudanum.  
*Beasley.*

## MORPHIÆ CITRAS.

## CITRATE OF MORPHIA.

R. Morphia                                sixteen grains  
 Crystallized citric acid                eight grains  
 Distilled water                        one ounce  
 Color with  
 Tincture of cochineal                two drachms  
 Mix. Dose, six to thirty drops, in the  
 twenty-four hours. *Magendie.*

## MORPHIÆ HYDRIODAS.

## HYDRIODATE OF MORPHIA.

R. Muriate of morphia                      two parts  
 Iodide of potassium                      one part  
 Make a strong solution of each, and mix,  
 wash the precipitate in a little cold water,  
 press in bibulous paper, redissolve in hot  
 water, and let crystallize. *A. T. Thomson.*

## MORPHIÆ MURIAS.

## MURIATE OF MORPHIA.

R. Morphia in powder                      one ounce  
 Distilled water                      half a pint  
 Muriatic acid                      sufficient  
 Mix the morphia with the water, drop in  
 the acid, constantly stirring, till the mor-  
 phia is saturated and dissolved. Evaporate  
 by means of a water-bath to crystalliza-  
 tion. Dry upon bibulous paper.

*U. S. Ph.*

## SOLUTION OF MURIATE OF MORPHIA.

R. Muriate of mor-  
 phia                      one drachm and a-half  
 Rectified spirit                      five fl. ounces  
 Distilled water                      fifteen fl. ounces  
 Mix the spirit and water, and dissolve the  
 muriate in the mixture with the aid of  
 heat. *Ed. Ph.*

Eighteen minims contain one-sixth of a grain  
 of the muriate, equal to a grain of opium.

## SYRUP OF MURIATE OF MORPHIA.

R. Muriate of morphia                      one grain  
 Syrup                      four ounces  
 Mix. Dose, a teaspoonful. *Cadet.*

## MIXTURE OF MURIATE OF MORPHIA.

R. Muriate of morphia                      sixteen grains  
 Acetic acid                      four drops  
 Distilled water                      one fl. ounce  
 Alcohol                      one fl. drachm  
 Mix. Dose, six to twenty drops. *Cadet.*

COMPOUND SYRUP OF MURIATE OF  
MORPHIA.

R. Muriate of morphia                      two grains  
 Syrup of pinks                      ten ounces  
       balm                      four ounces  
       orange flowers                      two ounces  
 Mix. Dose, half an ounce to an ounce.  
*Cadet.*

## LOZENGES OF MURIATE OF MORPHIA.

R. Muriate of morphia                      one scruple  
 Tincture of tolu                      half a fl. ounce  
 Sugar                      twenty-five ounces  
 Dissolve the muriate in a little hot water,  
 mix it and the tincture with the sugar,

beat into a mass with mucilage, and divide  
 into lozenges of fifteen grains. Each loz-  
 enge contains a fortieth of a grain of the  
 muriate. *Ed. Ph.*

LOZENGES OF MURIATE OF MORPHIA  
AND IPECACUANHA.

R. Made as the last, with the addition of  
 one drachm of ipecacuanha. *Ed. Ph.*

## MORPHIA NITRAS.

## NITRATE OF MORPHIA.

R. Morphia                      at will  
 Dilute nitric acid                      sufficient  
 Saturate, dissolve, evaporate, and let crys-  
 tallize. *Giordano.*

## MORPHIÆ PHOSPHAS.

## PHOSPHATE OF MORPHIA.

Make like the last, using dilute phos-  
 phoric acid instead of nitric.

## MORPHIÆ SULPHAS.

## SULPHATE OF MORPHIA.

R. Morphia, in powder,                      one ounce  
 Distilled water                      half a pint  
 Diluted sulphuric acid                      sufficient  
 Mix the morphia with the water, drop in  
 the acid, constantly stirring till the mor-  
 phia is saturated and dissolved. Evapo-  
 rate on water-bath and let crystallize. Dry  
 crystals on bibulous paper. *U. S. Ph.*  
 Dose, one-eighth to a quarter of a grain.

## BOLUS OF SULPHATE OF MORPHIA.

R. Sulphate of morphia                      two grains  
 Oil of almonds                      sufficient  
 Sulphate of iron                      four grains  
 Crumb of bread  
 Honey, each,                      sufficient  
 Mix, and make eight boluses.

R. Sulphate of morphia                      one grain  
 Ipecacuanha                      three grains  
 Oil of almonds                      twelve drops  
 Extract of aconite                      two grains  
 Liquorice powder  
 Honey, each,                      sufficient  
 Mix, and make six boluses. One, every  
 three or four hours. *Brera.*

## PILLS OF SULPHATE OF MORPHIA.

R. Sulphate of morphia                      two grains  
 Cyanide of potassium                      four grains  
 Mucilage                      sufficient  
 Mix, and make twenty-four pills. One  
 every six hours, in neuralgia. *Rouquier.*

R. Sulphate of morphia	one grain
Olive oil	sufficient
Ipecacuanha	three grains
Nux vomica	two grains
Crumb of bread	
Honey, each,	sufficient
Mix, and make six pills.	One, every two hours.

*Brera.*

## SOLUTION OF SULPHATE OF MORPHIA.

R. Sulphate of morphia	eight grains
Distilled water	half a pint

Dissolve. *U. S. Ph.*

One fl. drachm contains an eighth of a grain.

R. Sulphate of morphia	four grains
Distilled water	one fl. ounce

Dissolve. One fl. drachm contains half a grain. *Copland.*

## SYRUP OF SULPHATE OF MORPHIA.

R. Sulphate of morphia	one grain
Dissolve in a little water, and add to	
Syrup	four ounces

Each ounce contains one quarter of a grain of sulphate. *Cadet.*

## MIXTURE OF SULPHATE OF MORPHIA.

R. Sulphate of morphia	sixteen grains
Acetic acid	four drops
Distilled water	one ounce
Alcohol	one drachm

Mix. Dose, six to twenty drops. *Magendie.*

## LOTION OF SULPHATE OF MORPHIA AND BORAX.

R. Sulphate of morphia	six grains
Borax	half an ounce
Rose water	eight fl. ounces

Mix. As an application in pruritus vaginæ, washing first with tepid soap and water. *Meigs.*

## MORPHIÆ TARTRAS.

## TARTRATE OF MORPHIA.

R. Morphia	at will
Saturate with	
Solution of tartaric acid	sufficient

Evaporate and crystallize. *A. T. Thomson.*

## MOSCHUS.

## MUSK.

This is a peculiar concrete substance obtained from the *Moschus moschiferus*, a small animal of the deer kind, inhabiting the mountainous regions of central Asia. The musk is secreted in the male, in an oval sac, situated near the generative organs. It is found in commerce in these sacs; it is concreted or granular; of a brownish color;

soft and greasy to the touch; of a powerful, penetrating odor, and of a bitter, unpleasant, somewhat acrid taste. From its high price it is very liable to adulteration. It is antispasmodic and stimulant, and has been much used in spasmodic diseases of all kinds, as well as a stimulant in low states of the system. The dose is from five to ten grains.

## POWDER OF MUSK.

R. Musk	three grains
Opium	half a grain
Gum Arabic	one scruple
Sugar	two drachms

Triturate together, and divide into six powders. One, every three hours, in whooping-cough. *Augustin.*

R. Musk	sixteen grains
Valerian	twenty-four grains
Camphor	eight grains

Mix. As an antispasmodic, in hysteria, &c.; in doses of three to twelve grains. *Guibourt.*

This is called by Jourdain, Tonquin powder, but this name belongs rather to the following.

R. Musk	sixteen grains
Cinnabar	twelve grains

Mix. For a single dose. *Spielmann.*

Once celebrated as a remedy in hydrophobia.

## MUSK BOLUS:

R. Musk	five to ten grains
Camphor	five grains
Syrup	sufficient

Make a bolus. Antispasmodic. *Ellis.*

R. Musk	
Carbonate of ammonia, each,	ten grains
Conserve of roses	sufficient

Make a bolus. One, every three hours. In mortification, attended with spasmodic action. *Ellis.*

## MUSK PILLS.

R. Musk	eight grains
Opium	two grains
Camphor	twenty-four grains
Syrup	sufficient

Mix, and form six pills. To be taken during the day, in hospital gangrene. *Dupuytren.*

R. Musk	ten grains
Camphor	one scruple
Gum ammoniac	two scruples
Opium	four grains

Mix, and make pills of four grains. Four or five in the twenty-four hours, in nervous disorders. *Richard.*

R. Musk	twelve grains
Castor	twenty-four grains
Assaetida	thirty grains



Tincture of valerian sufficient  
Make twenty-four pills. Four, three  
times a-day, in nervous complaints.

*Radius.*

## MUSK MIXTURE.

R. Musk two drachms  
Sugar  
Gum Arabic, each, one drachm  
Distilled water six fl. ounces

Mix. A tablespoonful, every hour or  
two, in low fevers. *Ellis.*

R. Musk mixture six fl. ounces  
Paregoric elixir half fl. ounce  
Ammon. tinc. of  
valerian one fl. drachm

Mix. A teaspoonful, three or four times  
a-day, in pertussis in children. *Ellis.*

R. Musk two grains  
Fennel water six fl. ounces  
Laudanum ten drops  
Syrup of poppies two drachms

Mix. A spoonful, every hour, in tris-  
mus. *Cheselden.*

R. Musk mixture  
Camphor water, each, three fl. ounces  
and a-half

Syrup of ginger

Spirit of sulphuric

ether, each, two fl. drachms

Mix. A tablespoonful, every three or  
four hours, in low fevers. *Ainslie.*

## MUSK CLYSTER.

R. Musk ten grains  
Valerian half an ounce  
Starch half a drachm  
Boiling water eight ounces

Mix. As an antispasmodic and excitant.

*Radius.*

R. Musk twelve grains  
Sugar two scruples  
Spirit of ammonia thirty drops  
Infusion of flaxseed four fl. ounces

Mix. For children with convulsions.  
*Ellis.*

## TINCTURE OF MUSK.

R. Musk one part  
Alcohol twelve parts  
Digest for twelve days, and filter. Dose,  
thirty to sixty drops. *Guibourt.*

## MUCUNA.

## COWHAGE.

This is the bristles of the pods of *Mucuna pruriens*, a perennial, twining plant, native of the warmer parts of America, bearing somewhat

curved brown pods, covered with short bristles, which, when dry, readily separate.

*Sex. Syst.* Diadelph. decand. *Nat. Syst.* Fa-  
vaceæ.

*Decandolle*, Prod. ii. 405. *Griffith*, Med. Bot.  
242.

The pod is shaped somewhat like the italic S, and is covered with brown, bristly hairs, which adhere to any substance coming in contact with them. These hairs or spicula are possessed of anthelmintic powers, but whether they act mechanically or not, has not been fully ascertained, though the probability is that they do.

## ELECTUARY OF COWHAGE.

R. Cowhage two scruples  
Syrup half an ounce

Mix. A teaspoonful every morning, fast-  
ing, for three days, to be followed by a  
dose of castor oil; in cases of lumbrici.

*Correa.*

R. Cowhage one drachm  
Honey sufficient

to make electuary. To be given as above.  
*Ellis.*

## MYRISTICA.

## NUTMEG.

The nutmeg is the kernel of the fruit of *Myristica moschata*, a small tree, a native of the Molucca Islands, and now cultivated in various tropical regions.

*Sex. Syst.* Dicc. monadelph. *Nat. Syst.* My-  
risticaceæ.

*Thunberg*. Act. Holm. 1782. *Griffith*, Med.  
Bot. 109.

The nutmeg is an oval, oblong almond, of a lightish brown color externally, and of a reddish gray with red veins, internally, of an agreeable, fragrant odor, warm, aromatic taste, and unctuous feel. It is principally used for culinary purposes, but is also employed in medicine as a stimulant, and to disguise the taste of nauseous remedies.

## AROMATIC POWDER.

R. Cinnamon  
Ginger, each, two ounces  
Cardamom seeds  
Nutmeg, grated, each, one ounce  
Rub together into very fine powder.

*U. S. Ph.*

Stimulant and carminative; dose, ten to thirty grains.

## GOELIS' ANTIHECTIC POWDER.

R. Burnt hartshorn  
Powdered nutmeg  
Roasted laurel berries, each, one part  
Liquorice three parts  
Mix, and make a powder. Advised in the  
hectic attendant on scrofulous affections.

*Augustin.*

## STIMULATING CLYSTER.

R. Powdered nutmeg one drachm

Powdered columbo	one drachm
salep	one scruple
Infusion of flaxseed	four fl. ounces
Mix. As a stimulating enema.	<i>Ammon.</i>

Mix. To be occasionally dropped into the ear to correct a fetid discharge, syringing it also, daily, with a weak solution of soap and water. *Hugh Smith.*

SPIRIT OF NUTMEG.

R. Nutmeg, bruised,	two ounces
Diluted alcohol	one gallon
Water	a pint
Mix, and distil one gallon, with a slow fire.	
	<i>U. S. Ph.</i>

Dose, one to two fl. drachms; principally used to flavor other medicines.

COMPOUND SPIRIT OF NUTMEG.

R. Nutmeg	two ounces
Lemon peel	
Orange peel	
Spearmint	
Balm, each,	one ounce
Diluted alcohol	four pints
Water	twelve pints
Distil three pints.	<i>Van Mons.</i>

As a stomachic, and an external application to contusions.

MYROXYLON.

## BALSAM OF PERU.

This balsam is the product of *Myroxylon Peruvianum*, a large tree, indigenous to South America, where it is called *quinquina*.

*Sex. Syst.* Decand. monog. *Nat. Syst.* Fabaceæ.

Linn. Sp. Pl. 233. Griffith, Med. Bot. 248.

The balsam is a thick, viscid fluid, of a dark, reddish-brown color, an agreeable, fragrant odor, and a warm, bitterish taste, occasioning a pungent sensation in the throat. It is stimulating, tonic, and expectorant, and has been much used in pectoral complaints, &c., and also externally as an application to indolent ulcers. The dose is about half fl. drachm.

PILLS OF BALSAM OF PERU.

R. Balsam of Peru                                 one drachm  
Extract of bitter polygala two drachms  
Marsh mallow                                     sufficient  
to make one hundred and twenty pills.  
Ten, four times a-day, in chronic mucous  
discharges.                                     *Schubert.*

### ACOUSTIC BALSAM.

R. Balsam of Peru                      half a drachm  
Narcotic oil  
Onion juice, each,                      one ounce  
Mix. A dossil of cotton saturated with  
this oil, is to be introduced into the deaf  
ear, provided there is no inflammation or  
violent pain.

R. Beef gall	three fl. drachms
Balsam of Peru	one fl. drachm

### LINIMENT FOR CHILBLAINS.

R.	Balsam of Peru	half a drachm
	Muriatic ether	
	Laudanum, each,	two drachms
Mix.	As a friction.	<i>Henschel.</i>

### MAMMILLARY LOTION.

R. Balsam of Peru	one drachm
Yolk of egg	one
Spirit of wild thyme	three ounces

Mix. The sore nipple is to be bathed with this, and then sprinkled with a powder, composed of one drachm of Peruvian bark, and two drachms of gum Arabic. *Iverg.*

### BALSAM OF PERU MIXTURE.

R. Balsam of Peru	two drachms
Yolk of egg	one
Extract of cinchona	six drachms
Honey of roses	three ounces

Mix. Two dessertspoonfuls, four times a day, in chronic mucous discharges.

*St. Marie.*

R. Balsam of Peru	half a drachm
Mucilage of gum Arabic	sufficient
Cinnamon water	
Water, each.	half fl. ounce

Mix. To be taken three or four times a day, as an expectorant in chronic catarrh.

*Ellis.*

SYRUP OF BALSAM OF PERU.

R. Tincture of balsam of	
Peru	one fl. ounce
Tepid simple syrup	two pounds
Mix, and agitate briskly.	Dose, from one
to two drachms.	<i>Lisbon Ph.</i>

TINCTURE OF BALSAM OF PERU.

R. Balsam of Peru                      one part  
Alcohol                                        eight parts  
Macerate for some days, and filter.  
*Guibourt.*

Principally used as an external application to  
ulcers, &c.

### BALSAM OF PERU COLLUTORY.

R. Tincture of balsam of Peru      one part  
    guaiacum                  four parts  
Mix. A teaspoonful to a glass of water,  
to rinse the mouth.                                  *Taddei.*

## LOCATELLI'S BALSAM.

R. Olive oil	six ounces
Yellow wax	four ounces
Wine	five fl. ounces

Melt together by a gentle heat, till all moisture is evaporated, and add

Venice turpentine	six ounces
Balsam of Peru	two drachms
Red saunders	half an ounce

Mix. Formerly used in phthisis, but now employed only as an external application. This is the original formula. *Spielmann.*

#### OINTMENT OF BALSAM OF PERU.

R. Balsam of Peru  
Spermaceti ointment equal parts  
Mix. As a dressing to painful ulcers.

*Radiis.*

#### COMPOUND OINTMENT OF BALSAM OF PERU.

R. Lard	two ounces
White wax	four drachms

Melt in a water-bath, and add  
Balsam of Peru two drachms  
Oil of lavender twelve minims  
As an application to promote the growth of the hair. *Copland.*

#### PLASTER OF BALSAM OF PERU.

R. Powdered carbonate of  
lead sixteen parts  
litharge eight parts  
Rose oil forty-eight parts  
White wax thirty-two parts

Melt together, and, at close of operation, add

Balsam of Peru two parts  
As an application to indolent ulcers. *Foy.*

### MYRRHA.

#### MYRRH.

Myrrh is the concrete juice of *Balsamodendron myrrha*, a small shrubby tree, with spiny branches, a native of Arabia, &c.

*Sex. Syst.* Octand. monog. *Nat. Syst.* Amyridaceæ.

*Nees. Offic. Planz. i.* 17. *Griffith, Med. Bot.* 171.

Myrrh occurs in tears, or in agglutinated masses, of various shades of color; the best is of a reddish yellow color, somewhat translucent, having a peculiar, aromatic odor and a warm, bitter taste. It is a stimulating tonic. It is given in a variety of diseases, and is used externally as an application to foul ulcers, aphthæ, &c. The dose is from ten to thirty grains, usually in combination.

#### POWDER OF MYRRH AND IPECACUANHA.

R. Powdered myrrh twelve grains  
ipecacuanha six grains  
nitre half a drachm

Mix, and divide into four powders. One, every fourth hour. Stimulating expectorant. *Paris.*

#### EMMENAGOGUE POWDER.

R. Myrrh twelve grains  
Saffron three grains  
Oil of cloves one drop  
Rub into powder. *Augustin.*

#### PILLS OF MYRRH AND ZINC.

R. Sulphate of zinc ten grains  
Powdered myrrh one drachm and a-half  
Conserve of roses sufficient  
Mix, and form twenty pills. Two, twice a-day. In pertussis. *Paris.*

#### PILLS OF MYRRH AND SULPHATE OF IRON.

R. Myrrh  
Sulphate of iron, each, two scruples  
Carbonate of potassa  
Soap, each, half a drachm  
Rub into mass, and form forty pills. Two, thrice a-day. In amenorrhœa. *Ellis.*

#### PILLS OF MYRRH AND SQUILL.

R. Myrrh one drachm and a-half  
Dried squill half a drachm  
Extract of henbane two scruples  
Distilled water sufficient  
Rub into mass, and form thirty pills. Two, night and morning. In catarrh and phthisis. *Paris.*

#### PILLS OF MYRRH AND CANADA BALSAM.

R. Myrrh three drachms  
Canada balsam one drachm and a-half  
Opium half a drachm  
Mix, and make pills of two grains. Two to four, every hour, in ulcerated phthisis. *Augustin.*

#### ALKALINE SOLUTION OF MYRRH.

R. Myrrh two ounces  
Sub. carbonate of soda one drachm  
Boiling water eight fl. ounces  
Macerate for two days, and filter. *Swedliaur.*

#### COMPOUND EXTRACT OF MYRRH.

R. Myrrh two ounces  
Gum Arabic two drachms  
Triturate together; add sufficient water to make a thick emulsion, and mix well with the  
Extract of couchgrass four ounces  
Advised in phthisis, and ulcers of the uterus. Dose, one to three drachms, mixed with water, two or three times a-day. *Swedliaur.*

#### MYRRH COLLUTORY.

R. Lime water one fl. ounce and a-half  
Tincture of myrrh two fl. drachms  
Honey of roses two drachms  
Mix. *Pharm. Chirurg.*



R. Tincture of myrrh      two fl. drachms  
 Infusion of sage      six fl. ounces  
 Honey of roses      two ounces  
 Mix.      *Augustin.*

## MYRRH GARGLE.

R. Tincture of myrrh  
 Vinegar, each,      two fl. ounces  
 Honey      one ounce  
 Infusion of contrayerva      one pint and a-half  
 Mix. In putrid sore throat, scarlatina, &c.      *Fothergill.*

R. Honey of roses      one ounce and a-half  
 Barley water      twelve fl. ounces  
 Tincture of myrrh      six fl. drachms  
 Vinegar      one fl. ounce  
 Mix. As a gargle in putrid sore throat.      *Ainslie.*

## STIMULATING INJECTION.

R. Myrrh      one ounce  
 Quicklime      two ounces  
 Water      two pints  
 Infuse for a few days, and decant. As an injection in fistulous ulcers.      *St Marie.*

## TINCTURE OF MYRRH.

R. Myrrh, bruised,      four ounces  
 Alcohol      three pints  
 Macerate for fourteen days, and filter.      *U. S. Ph.*

## TINCTURE OF MYRRH AND HELLEBORE.

R. Tincture of myrrh      one fl. ounce  
     black hellebore      half a fl. ounce  
     Spanish flies      two fl. drachms  
 Mix. As an emmenagogue, in doses of thirty drops, three times a-day, in a little sugar and water.      *Ellis.*

## GRIFFITH'S MYRRH MIXTURE.

R. Myrrh      one drachm  
 Sulphate of iron      one scruple  
 Carbonate of potassa      one drachm  
 Sugar      two drachms  
 Water      six fl. ounces  
 Make mixture. As a tonic in phthisis, in tablespoonful doses, according to circumstances.      *Ellis.*

## COMPOUND MYRRH MIXTURE.

R. Powdered myrrh      one drachm  
 Carbonate of potassa      half a drachm  
 Sulphate of iron      twelve grains  
 Mucilage gum Arabic      two fl. drachms  
 Decoction of liquorice      six and a-half fl. ounces  
 Spirit of allspice      one fl. ounce  
 Rub the myrrh, potassa, sulphate of iron, and mucilage, well together; add gradually the other ingredients. Dose, a tablespoonful, twice or thrice a-day.      *Babington.*  
 Nearly the same as Griffith's mixture, and used in the same cases.

## OIL OF MYRRH.

R. Myrrh      two parts  
 Washed sand      three parts  
 Distil, separate the oil that passes, and rectify it.      *Wirt. Ph.*

## MYRRH PLASTER.

R. Balsam of Peru  
 Camphor  
 Powdered myrrh, each, one ounce and a-half  
 Lead plaster      thirty-two ounces  
 Triturate the three first ingredients together, and when intimately mixed, add the melted plaster, and stir until chilled; then form into rolls of half a pound each.

## N

## NAPHTHALINA.

## NAPHTHALINE

Is a product of the distillation of coal tar, and is deposited from the rectified oil of coal tar, in white, shining, concrete crystals, and may be purified by dissolving in alcohol and recrystallizing. It is an active expectorant, in doses of eight to thirty grains.

## SYRUP OF NAPHTHALINE.

R. Naphthaline      sixteen grains

Dissolve in smallest quantity of hot alcohol, and triturate with  
 Syrup      four ounces  
*Dupasquier.*

## OINTMENT OF NAPHTHALINE.

R. Naphthaline      one scruple  
 Lard      five drachms  
 Mix. As an application in dry tetter, lepra, psoriasis, &c.      *Emery.*

## LOZENGES OF NAPHTHALINE.

- R. Naphthaline five scruples  
 Sugar twenty ounces  
 Oil of aniseed  
 Mucilage of tragacanth, each, sufficient  
 Mix, and form lozenges of fifteen grains.  
 Expectorant. One occasionally, to the  
 amount of twenty a-day. *Dupasquier.*

## NARCOTINA.

## NARCOTINE

Is a white, tasteless, inodorous principle, existing in opium. It forms bitter salts with the acids. It has been used with success as an antiperiodic, in doses of three grains, three times a-day.

- R. Residue of opium, exhausted by  
 Water at will  
 Dry it, powder it coarsely, add cold acetic acid, express, and filter; add an excess of ammonia, wash the precipitate with cold water, dissolve in boiling alcohol, decolorize by means of animal charcoal, let cool, and crystallize.

## BOLUS OF NARCOTINE.

- R. Narcotine one scruple  
 Oil of almonds six drops  
 Crumb of bread  
 Honey, each, sufficient  
 Mix, and make eight boluses. One, three times a-day, in the apyrexia of intermittents. *Brera.*

## MIXTURE OF NARCOTINE.

- R. Narcotine one drachm  
 Lemon water three fl. ounces  
 Mix. Dose, a spoonful. *Brera.*

## NARCOTINÆ MURIAS.

## MURIATE OF NARCOTINE.

- R. Opium two pounds  
 Alcohol twenty pounds  
 Rub together, gradually adding the spirit, till the opium is exhausted, decant, and press residue; to solution add ammonia, till turbid. Distil off one-fourth of alcohol, and let the product cool; wash the deposit with water, and then with a drachm of muriatic acid mixed with a quart of water. Filter the solution, and evaporate to dryness. Dose, about the same as of narcotine. *O'Shaughnessy.*

## NUX VOMICA.

## NUX VOMICA

Is the seed of the *Strychnos nux vomica*, a moderate sized tree, a native of many parts of the East Indies, having a very bitter wood.

*Sec. Syst.* Pentand. monog. *Nat. Syst.* Loganiaceæ.

*Linn. Sp. Pl.* 271. *Griffith, Med. Bot.* 469.

The seeds are flat, peltate, with a narrow annular striæ, somewhat downy on the surface; they are of a horny consistence, inodorous, and of a bitter, acrid, somewhat nauseous taste. *Nux vomica* is a violent excitant of the cerebro-spinal system, and in large doses an active poison. In small doses, frequently repeated, it is tonic, diuretic, and even laxative. It owes its energetic properties to the presence of strychnia and brucia. It is principally used in paralysis, in doses of about five grains, three or four times a-day.

## POWDER OF NUX VOMICA.

- R. Powdered nux vomica three grains  
 Gum Arabic  
 Sugar, each, twelve grains  
 Mix. Advised in chronic dysentery. One, every day. *Soubiran.*  
 R. Powdered nux vomica eighteen grains  
 ipecacuanha twenty-four grains

- Powdered rhubarb one drachm  
 Prepared chalk two scruples  
 Oil of peppermint two drops  
 Mix. To be divided into twelve powders. One every three or four hours, in cardialgia, &c. *Vogt.*

## EXTRACT OF NUX VOMICA.

- R. Nux vomica one pound  
 Alcohol sufficient  
 Expose the nux vomica to steam, till softened, slice, dry, and reduce it to powder. Place this in a displacement apparatus, add alcohol till it comes away without bitterness. Distil off the alcohol from the tincture, and evaporate to a proper consistence. *U. S. Ph.*

Dose, half a grain to two grains.

## TINCTURE OF NUX VOMICA.

- R. Powdered nux vomica one part  
 Alcohol four parts  
 Macerate for fourteen days, and filter. *Cottureau.*

Dose, five to twenty drops, in paralysis.

## COMPOUND TINCTURE OF NUX VOMICA.

- R. Extract of nux vomica twenty-four grains  
 Camphor one drachm  
 Tincture of pellitory one fl. ounce

Mix. Dose, twenty drops, four times a-day, in paralysis. *Radius.*

R. Tincture of nux vomica  
Spanish flies, each,  
one fl. drachm  
Phosphoric ether one fl. scruple

Mix. Thirty drops, three or four times a-day, in paralysis. *Radius.*

#### PILLS OF NUX VOMICA.

R. Powdered nux vomica thirty grains  
Conserve of roses sufficient  
Mix, and make ten pills; one, twice or thrice a-day, in paralysis, closely watching the effects. *Ellis.*

#### PILLS OF EXTRACT OF NUX VOMICA.

R. Extract of nux vomica one scruple  
liquorice seven scruples  
Mix, and make eighty pills. Two to four, two or three times a-day, in paralysis. *Radius.*

#### COMPOUND PILLS OF NUX VOMICA.

R. Extract of nux vomica six grains

Black oxide of iron one drachm  
Mix, and make twenty-four pills. Three a-day, in atonic incontinence of urine. *Mondiere.*

#### PILLS OF NUX VOMICA AND ALOES.

R. Extract of nux vomica ten grains  
Pills of aloes and myrrh four scruples  
Mix well, and form thirty-six pills. One or two, night and morning. *Copland.*

#### MIXTURE OF NUX VOMICA.

R. Extract of nux vomica ten grains  
Elder water six fl. ounces  
Mucilage of gum Arabic  
Spirit of mallows, each, one fl. ounce  
Mix. A spoonful every two hours, in chronic dysentery. *Ammon.*

#### LOTION OF NUX VOMICA.

R. Extract of nux vomica eight grains  
Alcohol two fl. ounces  
Strong water of ammonia half fl. ounce  
Mix. As a stimulating lotion to paralyzed limbs. *Radius.*



### OLEUM ANIMALE EMPYREUMATICUM.

#### DIPPEL'S ANIMAL OIL.

R. Oil of hartshorn at will  
Distil off one-fourth, by a slow heat, on a sand-bath, keeping it protected from the light. *Van Mons.*

Antispasmodic, diaphoretic, and anodyne, in doses of five or ten drops; poisonous in large doses.

#### LINIMENT OF DIPPEL'S OIL.

R. Dippel's oil one drachm  
Oil of almonds six drachms  
Turpentine soap half an ounce  
Mix. As an exciting liniment, also as an application to the abdomen, in cases of worms. *Sundelin.*

#### TINCTURE OF DIPPEL'S OIL.

R. Dippel's oil one part  
Sulphuric ether fifteen parts  
Dissolve. Fifteen to thirty drops, as a stimulant and antispasmodic. *Beral.*

#### MIXTURE OF DIPPEL'S OIL.

R. Dippel's oil one drachm  
Hoffmann's anodyne three drachms

Dissolve. Twenty to thirty drops, four times a-day, in chorea and tetanus. *Radius.*

### OLEUM CAJUPUTI.

#### OIL OF CAJEPUT.

This is a fluid, transparent, green oil, of an aromatic and pleasant odor, and a warm, pungent taste; obtained from the *Melaleuca cajuputi*, a small tree, a native of the Molucca islands.

*Sex. Syst.* Polydelph. icosand. *Nat. Syst.* Myrtaceæ.

Maton. Lond. Pharm. 1800. Griffith, Med. Bot. 296.

It is also furnished by other species. It is an active stimulant, when given internally, in doses of a few drops, and acts as a rubefacient, when applied to the skin.

#### MIXTURE OF OIL OF CAJEPUT.

R. Oil of cajeput half a drachm  
Dippel's animal oil one drachm  
Mix. As a stimulant. Dose, five to fifteen drops. *Augustin.*

#### CAJEPUT LINIMENT.

R. Cajeput oil  
Camphor, each, three drachms



Soft soap	two ounces
Alcohol	one pint
Water of ammonia	two fl. ounces
Mix. As an embrocation.	<i>Chapman.</i>

## OLEUM MORRHUÆ.

## COD LIVER OIL.

This, which is also called *Oleum jecoris aselli*, is procured from the livers of several kinds of fish, but principally from the Cod, though that from the Ray is said to be preferable. There are several varieties; one, clear and limpid, the other dark colored, and somewhat acrid, which is said by many writers to be the most powerful. The pale oil has a faint smell, and a bland taste. It has obtained much celebrity as an alterative, in strumous affections; in chronic gout, rheumatism, and cutaneous diseases, &c. The dose for an adult, is from half a spoonful to three spoonfuls, two or three times a-day.

## MIXTURE OF COD LIVER OIL.

R. Cod liver oil	four fl. ounces
Gum Arabic	
Sugar, each,	two drachms
Cinnamon, or mint	
water	four fl. ounces

Mix. One or two tablespoonfuls, morning and evening. *Ellis.*

R. Cod liver oil	four fl. ounces
Solution of carbonate of potassa	half fl. ounce
Syrup of orange peel	half fl. ounce
Peppermint water	seven fl. ounces

Mix. Dose, one and a-half fl. ounces to three fl. ounces. *Beasley.*

R. Cod liver oil	one fl. ounce
Solution carbonate of potassa	two fl. drachms
Syrup of orange peel	one fl. ounce
Oil of calamus	three drops

Mix. Dose, one to two fl. drachms, night and morning, for rickets in children. *Fehr.*

R. Cod liver oil	
Syrup of orange peel	
Aniseed water, each,	one fl. ounce
Oil of calamus	three drops
Mix. Three spoonfuls a-day, in rachitis, and gouty swellings.	<i>Phabus.</i>

## SYRUP OF COD LIVER OIL.

R. Cod liver oil	eight parts
Powdered gum Arabic	five parts
Simple syrup	four parts
Make an emulsion, and add	
Sugar	twenty-four parts
Dissolve by gentle heat, and add	
Orange-flower water	two parts
	<i>Duclou.</i>

## LINIMENT OF COD LIVER OIL.

R. Cod liver oil	one fl. ounce
Water of ammonia	half fl. ounce
Mix.	<i>Brach.</i>

R. Cod liver oil	four fl. drachms
Lead water	two fl. drachms
Yolk of egg	three drachms
Mix. As an application to ulcers, &c.	<i>Brefeld.</i>

## OINTMENT OF COD LIVER OIL.

R. Cod liver oil	three fl. ounces
Spermaceti	six drachms
White wax	two drachms
Melt together, and stir till cold.	<i>Beasley.</i>

R. Caustic soda	one ounce
Water	two fl. ounces and a-half

Dissolve, and add  
Cod liver oil eight fl. ounces  
Agitate briskly. *Deschamps.*

R. Cod liver oil	ten parts
Lead water	five parts
Lard	ten parts

Mix.

## COMPOUND OINTMENT OF COD LIVER OIL.

R. Cod liver oil	one fl. drachm
Red oxide of mercury	four grains
Simple cerate	two scruples
Mix.	<i>Cunier.</i>

R. Cod liver oil	
Extract of wood	
soot, each,	two drachms
Citrine ointment	one drachm
Beef marrow	six ounces
Mix.	<i>Carron.</i>

In opacities of the cornea, and scrofulous ophthalmia.

## COMPOUND OIL OF COD LIVER.

R. Cod liver oil	one fl. drachm
Walnut oil	two fl. drachms
Mix. A drop or two to be introduced between the eyelids, in opacities of the cornea.	<i>Radius.</i>

## OLEUM OLIVÆ.

## OLIVE OIL.

The oil of the fruit of *Olea Europæa*, a small tree, originally from Syria, but now extensively cultivated in the countries bordering on the Mediterranean.

*Sex. Syst.* Diand. monog. *Nat. Syst.* Oleaceæ. *Linn. Sp. Pl.* 11. *Griffith, Med. Bot.* 442.

Good olive oil is an unctuous fluid, of a pale yellow or greenish color; almost inodorous, and of a bland taste. It is principally used as an article of food, but is also employed in medicine as a demulcent, emollient, and laxative, and in

the composition of liniments, ointments, &c. The dose, as a laxative, is about a fl. ounce.

## OLIVE OIL MIXTURE.

R. Syrup of gum four fl. ounces  
Olive oil half fl. ounce  
Mix. As a laxative. *Radiis.*

R. Olive oil eight fl. ounces  
Aromatic spirit of ammonia two fl. drachms

Mix. Three spoonfuls, night and morning, as an anthelmintic. *Ellis.*

R. Olive oil one fl. ounce  
Solution carbonate of potassa half fl. drachm  
Mint water seven fl. ounces

Mix. *Guy's Hospit.*

R. Olive oil one fl. ounce  
Water of carbonate of ammonia one fl. drachm  
Mint water seven fl. ounces

Mix. *Guy's Hospit.*

R. Olive oil mixture eight fl. ounces  
Manna one ounce and a-half

Mix. Dose, three spoonfuls as a laxative. *St. Bart's Hospit.*

## OLIVE OIL CLYSTER.

R. Common salt one tablespoonful  
Olive oil  
Molasses, each, two tablespoonfuls  
Warm water one pint

Mix. *U. S. Dispens.*

R. Manna one ounce  
Compound decoction of chamomile ten fl. ounces

Dissolve, and add  
Olive oil one fl. ounce

Sulphate of magnesia half an ounce  
*Dub. Ph.*

## OLEUM RICINI.

## CASTOR OIL.

The oil of the seeds of *Ricinus communis*, a perennial tree in tropical countries, but an annual herbaceous plant in temperate latitudes. The seeds are ovate, compressed, bean-like, of a grayish ash color, marbled with reddish brown, not unlike the dog tick in appearance.

*Ser. Syst.* Monœc. monad. *Nat. Syst.* Euphorbiacæ.

Linn. Sp. Pl. 1430. Griffith, Med. Bot. 599.

The oil, which is generally obtained by expression, is a thick, viscous, colorless fluid, with a faint, but unpleasant odor, and a mild, but nauseous taste, followed by a slight sensation of acidity. It is a mild, but prompt cathartic, acting rather as an evacuant than as an excitant of the alvine secretions. The dose is about a fl. ounce; for infants, from one to four fl. drachms. Its dis-

gusting taste is best disguised by mixing it with froth of porter.

## OLEAGINOUS MIXTURE.

R. Castor oil one ounce  
Powdered gum Arabic two drachms  
Sugar one drachm

Rub together, and add gradually  
Mint water four fl. ounces

Triturate well. A tablespoonful, every hour or two hours, till it acts. *Ellis.*

In some cases, as in dysentery, it is of benefit, to add thirty or forty drops of laudanum to the mixture.

R. Castor oil  
Mucilage of gum Arabic  
Syrup of orgeat, each, two ounces  
Water ten fl. ounces

Make an emulsion. Dose, as last. *Beral.*

R. Castor oil one ounce  
Yolk of egg one  
Water of orange peel two fl. drachms

Water two fl. ounces  
Make an emulsion. *Radiis.*

R. Castor oil one ounce  
Yolk of egg one  
Orange-flower water

Simple syrup, each, half an ounce  
Water two ounces

Make an emulsion. *Cottercau.*

R. Castor oil eleven drachms  
Powdered tragacanth half a drachm  
White sugar seventy-five grains

Water two and a-half fl. ounces  
Syrup of orange-flowers six fl. drachms

Triturate the tragacanth with the sugar; add the syrup, and rub well in a mortar, until the mucilage begins to thicken, then add the oil, and continue rubbing till it is homogeneous, adding the water gradually, during the process. *Mannè.*

## EMULSION OF CASTOR OIL SEEDS.

R. Castor oil seeds half an ounce  
Anise water four ounces  
Sugar two drachms

Deprive the seeds of their exterior, triturate them to a uniform pulp with a little water, and the sugar, and finally add the remainder of the water gradually, and strain through a coarse cloth. *W. Procter.*

## ANTHELMINTIC EMULSION.

R. Castor oil  
Mucilage of gum Arabic, each, one ounce

Syrup of Corsica moss  
Water of semen contra

chamomile, each, two fl. ounces

Emulsion of sweet almonds eight fl. ounces  
Mix, and make an emulsion. As an anthelmintic. *Beral.*

#### CASTOR OIL CLYSTER.

R. Castor oil one ounce and a-half  
Yolk of egg two  
Infusion of chamomile six fl. ounces  
Mix. *Radiis.*

#### MIXTURE OF CASTOR OIL AND ETHER.

R. Castor oil one ounce  
Sulphuric ether two drachms  
Mix. A spoonful every two hours, advised as an anthelmintic, in cases of tapeworm. *Radiis.*

#### FIXATURE.

R. Castor oil two ounces  
Spermaceti one drachm  
Arnotto half an ounce  
Oil of bergamot one drachm  
Otto of roses five drops  
Mix; melt by a moderate heat, and strain.  
To stiffen, and keep hair in form. *Redwood.*

### OLEUM TEREBINTHINÆ.

#### OIL OF TURPENTINE.

This is usually known as *Spirits of turpentine*, and is the volatile oil obtained from the turpentine afforded by several species of *Pinus*. It is limpid, colorless, of a strong, penetrating, peculiar odor, and of a warm, pungent, somewhat bitterish taste. It is stimulant, diuretic, anthelmintic, and cathartic, and externally rubefacient.

#### PURIFIED OIL OF TURPENTINE.

R. Oil of turpentine eight parts  
Alcohol one part  
Agitate together, and pour off the spirit, and repeat the process several times. *Nimmo.*

#### LOTION FOR CHILBLAINS.

R. Oil of turpentine four parts  
Sulphuric acid one part  
Olive oil ten parts  
Mix. To be applied to the affected part, night and morning. *Gassicourt.*

#### OIL OF TURPENTINE AND HONEY.

R. Oil of turpentine two fl. drachms  
Honey one fl. ounce  
Mix. A teaspoonful night and morning, in warm tea. In sciatica. *Ellis.*

#### LOTION FOR TOOTHACHE.

R. Oil of turpentine one fl. drachm and a-half  
Oil of cloves  
Oil of cajeput, each, half a fl. drachm

Balsam of Peru two drachms  
Opium two scruples  
To be well rubbed together. As an application to the face, in cases of toothache. *Beasley.*

#### TURPENTINE MIXTURE.

R. Oil of turpentine one hundred and twenty drops  
Powdered gum Arabic sugar, each, two drachms  
Laudanum sixty drops  
Compound spirits of lavender two fl. drachms  
Mint water five fl. ounces  
Mix. A tablespoonful every two hours, in low forms of fever, &c. *Ellis.*

#### VERMIFUGE EMULSION.

R. Oil of turpentine six fl. drachms  
Gum Arabic two drachms  
Chamomile water six fl. ounces  
Sulphuric ether two fl. drachms  
Mix. Two spoonfuls, night and morning, in cases of tapeworm. *Radiis.*

#### TURPENTINE MIXTURE.

R. Oil of turpentine one fl. ounce  
Powdered gum Arabic sugar, each, two drachms  
Mint water four fl. ounces  
Mix. A tablespoonful every two hours till it operates. An active purgative. *Frank.*

R. Oil of turpentine three fl. drachms  
Yolk of egg two  
Syrup of mint two fl. ounces  
orange flowers  
ether, each, one fl. ounce  
Tincture of cinnamon half a fl. drachm  
Mix. A spoonful, three times a-day, in neuralgia and rheumatism. *Foy.*

R. Oil of turpentine one fl. ounce  
Yolk of egg one  
Triturate together, and add, gradually,  
Emulsion of almonds four fl. ounces  
Syrup of orange two fl. ounces  
Compound spirit of lavender four fl. drachms  
Oil of cinnamon four drops  
One fl. ounce, three times a-day. Advised as a purge in Iritis. *Carmichael.*

#### SPIRIT OF TURPENTINE MIXTURE.

R. Honey  
Spirit of turpentine  
Ammoniated tincture of guaiacum, each, two drachms  
Oil of cloves  
lemon, each, three drops



Mix. A teaspoonful, twice or three times a-day, in sciatica and lumbago. *Copland.*

## TURPENTINE CLYSTER.

R. Oil of turpentine one fl. ounce and a-half  
tine one fl. ounce and a-half  
Yolk of egg one  
Tepid infusion of flaxseed one pint  
Mix. *Ellis.*

R. Oil of turpentine one fl. ounce  
Yolk of egg sufficient  
Decoction of barley nineteen fl. ounces  
*Lond. Ph.*

## TURPENTINE AND ETHER.

R. Oil of turpentine  
Sulphuric ether equal parts  
Mix. Dose, twenty to forty drops, in honey or syrup, in biliary calculi, and as an external application in rheumatism.  
*Cottreanu.*

## TURPENTINE LINIMENT.

R. Oil of turpentine  
olives, each, two fl. ounces  
Tincture of camphor one fl. ounce  
Water of ammonia one fl. drachm  
Mix. As an external rubefacient.  
*Ellis.*

R. Soft soap two ounces  
Camphor one ounce  
Oil of turpentine sixteen fl. ounces  
Mix. A powerful rubefacient. *Lond. Ph.*

R. Oil of turpentine half a pint  
Resin cerate one pound  
Melt the cerate, and add the turpentine.  
*U. S. Ph.*

This is known as *Kentish's ointment*, and is much used as an application to burns and scalds.

## ACETIC TURPENTINE LINIMENT.

R. Oil of turpentine three fl. ounces  
Acetic acid five fl. drachms  
Rose water two and a-half fl. ounces  
Essence of lemon four fl. scruples  
Yolk of egg one  
Mix. As an external embrocation and liniment in phthisis.  
*Stokes.*

## SULPHURIC TURPENTINE LINIMENT.

R. Oil of turpentine three fl. ounces  
Sulphuric acid one fl. drachm  
Olive oil three fl. ounces  
Mix. *Brodie.*

## OPIATED TURPENTINE LINIMENT.

R. Oil of turpentine one fl. ounce  
chamomile two fl. ounces  
Laudanum one fl. drachm  
Mix. As a lotion in neuralgia.  
*Recamier.*

## STARKEY'S SOAP.

R. Dry carbonate of potassa  
Oil of turpentine  
Turpentine equal parts  
Mix the potassa with the oil, then add the resin, and triturate till the mixture is of the consistence of honey. Used in dropsy, and in gonorrhoea. Dose, eight to ten grains.  
*Guibourt.*

## DIURETIC WINE.

R. Oil of turpentine two fl. drachms  
Lemon juice one fl. ounce  
Wine four fl. ounces  
Mix. For a single dose. *Pierquin.*

## OLEUM TIGLII.

## CROTON OIL.

This oil is procured, for the most part, from the seeds of the *Croton tiglium*, but also from those of two or three other species. They are all natives of India, and the adjoining parts of Asia. The *C. tiglium* is a moderate sized shrub, bearing a somewhat triangular nut, containing three ovoid seeds, of a reddish brown color, having an oleaginous kernel, which affords, on pressure, the oil in question.

*Sex. Syst.* Monœc. monadelph. *Nat. Syst.* Euphorbiacæ.

*Linn. Sp. Pl.* 1426. *Griffith, Med. Bot.* 597.

The oil, when pure and fresh, is nearly colorless, or yellowish; but when kept for some time, becomes of a reddish brown or orange color. It has a faint, but peculiar smell, and an acrid and hot taste. It is a powerful hydragogue purgative, and has been much used in dropsy, apoplexy, and visceral obstructions; when applied externally, it causes irritation and inflammation of the skin, followed by a pustular eruption; and has been successfully employed in rheumatism, neuralgia, and bronchial and pulmonary affections. Dose for an adult, one to two drops.

## BOLUS OF CROTON OIL.

R. Croton oil one drop  
Powdered gum Arabic half a drachm  
Syrup of orange flowers sufficient  
Mix, and make four boluses. Two to four to be taken in the morning. *Foy.*

## PILLS OF CROTON OIL.

R. Croton oil six drops  
Soap half a drachm  
Oil of caraway eight drops  
Powdered liquorice root sufficient  
Mix, and make twelve pills. Dose, one or more. *Reece.*  
R. Croton oil six drops  
Pill of aloes and myrrh one drachm and a-half  
Soap one scruple  
Powdered liquorice root sufficient

- Mix, and make thirty pills. Dose, two  
to three, or more. *Copland.*
- R. Croton oil one drop  
Crumb of bread sufficient
- Mix, and make four pills. One, every  
hour, until they operate. *Ellis.*
- R. Croton oil two drops  
Soap two grains  
Gum Arabic sufficient
- Mix, and make four pills. *Foy.*

## COMPOUND CROTON OIL PILLS.

- R. Powdered scammony  
Powdered aloes, each, sixty-four parts  
Croton oil three parts  
Alcohol four parts
- Dissolve the oil in the alcohol; add the  
solution, gradually, to a mixture of the  
powders, and beat into a mass. Divide  
into pills of five grains. One to three,  
for children of eight to fourteen years of  
age; three to five, for adults. *Beral.*

## PILLS OF CROTON OIL AND QUININE.

- R. Croton oil soap three grains  
Sulphate of quinine one drachm  
Extract of dandelion sufficient
- Mix, and make twenty pills. One for a  
dose. *Caventou.*

## PILLS OF CROTON OIL AND BLUE MASS.

- R. Croton oil soap three grains  
Extract of henbane  
Blue mass, each, twenty-four grains  
Oil of pimento twelve minims
- Mix, and make twelve pills. Two at  
bedtime. *Neligan.*

## LOZENGES OF CROTON OIL.

- R. Vanilla chocolate two drachms  
Sugar one drachm  
Starch one scruple  
Croton oil five drops
- Mix, and make thirty lozenges. *Soubéiran.*

## SOAP OF CROTON OIL.

- R. Croton oil two parts  
Solution of caustic soda one part
- Mix; put into paper moulds; in a few  
days, slice, and keep in well-stopped bot-  
tles. Dose, one to three grains, in pills. *Foy.*

## TINCTURE OF CROTON OIL.

- R. Croton oil sixteen drops  
Alcohol one ounce
- Macerate for six or eight days, and filter.  
Dose, fifteen to twenty-five drops. *Soubéiran.*
- R. Croton oil four drops

- Tincture of myrrh one fl. ounce
- Mix, digest, and filter. Dose, one to two  
fl. drachms. *Bateman.*
- R. Croton oil eight drops  
Alcohol one fl. ounce
- Mix, digest, and filter. Dose, half to one  
fl. drachm. *Nimmo.*

## EMULSION OF CROTON OIL.

- R. Croton oil three drops  
Almond oil half a fl. ounce  
Powdered gum Arabic two drachms
- Triturate well, and gradually add  
Syrup of orange flowers one fl. ounce  
Chamomile water five fl. ounces
- A tablespoonful every two hours, till it  
operates. *Phæbus.*
- R. Croton oil one drop  
Yolk of egg two drachms  
Orange-flower water  
Mint water, each, one ounce
- Make an emulsion. *Foy.*

## MIXTURE OF CROTON OIL.

- R. Croton oil one to two drops  
Mucilage of gum Arabic  
Distilled water, each, one fl. ounce
- Mix. A teaspoonful every two hours, un-  
til it operates. *Ellis.*
- R. Croton oil two drops  
White sugar two drachms  
Gum Arabic half a drachm  
Tincture of cardamom half fl. drachm  
Distilled water one fl. ounce
- Mix. Dose, two dessertspoonfuls every  
three or four hours. As it is agreeable to  
the taste, it is suited for children, but in  
smaller doses. *Beral.*
- R. Tincture of croton oil twenty-five drops  
Mucilage of gum Arabic one drachm  
Water one ounce
- Mix. In the morning, fasting. *Foy.*

## SAPONACEOUS SOLUTION OF CROTON OIL.

- R. Croton oil eight drops  
Potassa six grains  
Distilled water two fl. drachms
- Mix. From three to six drops may be  
given for a dose. *Ellis.*

## LINIMENT OF CROTON OIL.

- R. Croton oil one part  
Olive oil five parts
- Mix. *Percira.*
- R. Croton oil one fl. drachm  
Oil of turpentine one fl. ounce
- Mix. *Corrigan.*
- R. Croton oil four drops  
Carbonate of soda ten grains

Spirit of mint half an ounce  
In friction, in rheumatism. *Foy.*

R. Croton oil  
Solution of potassa, each, half fl. ounce  
Mix, and agitate.

R. The above solution thirty minims  
Rose water one fl. ounce  
Mix. To be used twice a-day, till pustules  
appear. *J. Allen.*

EMBROCATION OF CROTON OIL.

R. Croton oil twenty minims  
Tartar emetic one scruple  
Solution of potassa one fl. drachm  
Water eight fl. drachms  
Mix. To keep up a mild eruption on the  
skin. *Morris.*

CERATE OF CROTON OIL.

R. Lard two and a-half parts  
Wax half a part  
Melt together, and when nearly cold, mix  
with them  
Croton oil one part  
*Caventou.*  
R. Soap cerate four parts  
Melt, and when semifluid, add  
Croton oil one part  
*Beasley.*

PLASTER OF CROTON OIL.

R. Lead plaster four parts  
Melt, and when nearly cold, add  
Croton oil one part  
Spread on linen for an adhesive and irrit-  
ating plaster *Bouchardat.*  
R. Lead plaster eight parts  
Melt, and when nearly cold, add  
Croton oil twenty parts  
To be spread as above. A very active  
counter irritant. *Bouchardat.*

OINTMENT OF CROTON OIL.

R. Croton oil ten minims  
Lard half an ounce  
Mix. *Ainslie.*

OPIUM.

OPIUM.

Opium is the inspissated juice of the unripe capsules of the *Papaver sonniferum*, and presents many varieties, as the Turkey or Smyrna, the East Indian or Bengal, the Egyptian, &c.; of which the first is the best, and affords the largest proportion of morphia.

Opium contains various peculiar principles, several of which are officinal, and are treated of under their respective titles. Turkey opium is in flattish, rounded masses, of half a pound to two pounds in weight, covered externally with

the seed vessels of some species of dock. The texture is soft; the color is pale brown; the odor is strong and narcotic, and the taste bitter and acrid.

Opium is stimulant, in small and repeated doses, narcotic in large; and also antispasmodic, diaphoretic, sedative, and anodyne. It is used to fulfil a variety of indications; to procure sleep, to lull pain, to check morbid discharges, to alleviate cough, &c. The medium dose is one grain, but in spasm, &c., it is given in much larger doses.

EXTRACT OF OPIUM. (AQUEOUS.)

R. Opium one pound  
Water five pints  
Cut the opium into small fragments, mace-  
rate it for twenty-four hours in a pint of  
water, break the pieces down with the  
hand, express; add another pint of water  
to the residuum, macerate for twenty-four  
hours, and again express; repeat this pro-  
cess till all the water has been used. Filter  
the several infusions, unite them, and eva-  
porate on a water-bath to due consistence.  
*Edin. Ph.*

EXTRACT OF OPIUM. (ALQUEO-ALCO-  
HOLIC.)

R. Opium one part  
Alcohol four parts  
Cut the opium in small pieces, and digest  
it in the alcohol for two days, at a gentle  
heat, express, and treat the residue with  
four parts of warm water; express, unite  
the solutions, and evaporate to due con-  
sistence. *Taddei.*

EXTRACT OF OPIUM. (ACETOUS.)

R. Opium one ounce  
Distilled vinegar two pints  
Cut the opium into small pieces, digest in  
the vinegar for two days, on a sand-bath,  
stirring from time to time, decant, filter,  
and evaporate to due consistence.  
*Soubciran.*

EXTRACT OF OPIUM. (ALCOHOLIC.)

R. Opium at will  
Alcohol sufficient  
Reduce the opium to small pieces, digest  
in the alcohol in a closed vessel, by a gen-  
tle heat, often stirring, filter, and distil off  
the alcohol, till the residue is of due con-  
sistence. *Antwerp Ph.*

EXTRACT OF OPIUM. (VINOUS.)

R. Opium one part  
White wine four parts  
Reduce the opium to small pieces, mace-  
rate it in the wine for twenty-four hours,  
occasionally stirring; express. Macerate  
the residue in two more parts of wine, and



express; unite the solutions, and evaporate to proper consistence. *Par. Cod.*

#### EXTRACT OF OPIUM. (DENARCOTIZED.)

R. Aqueous extract of opium at will  
Rub it with a little water, put it in a flask, add sulphuric ether, agitate, and decant; repeat the process with other portions of ether, as long as anything is taken up, and evaporate the residuum to a pilular consistence. *Robiquet.*

R. Aqueous extract of opium four parts  
Resin one part

Beat together, and add

Boiling water sixteen parts  
Boil till reduced one half, add as much cold water as has been boiled away, filter, and evaporate. *Limousin—Lamothe.*

#### EXTRACT OF OPIUM. (BY FERMENTATION.)

R. Opium one part  
Water eight parts

Mix, and add  
Yeast sufficient

Let ferment for a week, at a temperature of 68° to 70°; then dilute with water, filter, boil till all vinous odor is dissipated, and evaporate to proper consistence. *Deyeux.*

R. Opium two ounces

Dissolve in a mixture of

Quince juice  
Water, each, sixty ounces

Digest for some days, with a gentle heat, strain, and add

White sugar four ounces

Let ferment for a month, stirring from time to time, then strain, and evaporate. *Langolst.*

#### EXTRACT OF OPIUM. (ROASTED.)

R. Powdered opium one part  
Heat it on a flat dish, over a moderate fire, constantly stirring, as long as fumes are given off. Treat it twice with six times its weight of cold water, filter, and evaporate. *Guibourt.*

The last three forms of Extract, whilst containing the full proportion of morphine, are deprived of the irritating and virose principles of opium.

#### COMPOUND POWDER OF OPIUM AND CHALK.

R. Powdered opium six grains  
cinnamon one drachm  
long pepper eight grains

Prepared chalk one drachm and a-half

Mix, and divide into twelve powders. One, three or four times a-day. In diarrhoea. *Ellis.*

#### POWDER OF ROASTED OPIUM.

R. Powdered opium at will  
Put it in a flat dish; moisten it with white wine, expose to a moderate heat, constantly stirring till it is perfectly dry, repeat the operation, till the opium is one-half reduced, moisten with vinegar, and rub into paste, dry, and pulverize. As an astringent in hemorrhages, and mucous discharges, in doses of three or four grains, with some bitter extract. *Giordano.*

#### POWDER OF OPIUM, CAMPHOR, &c.

R. Powdered opium ten grains  
camphor two scruples  
Carbonate of ammonia four scruples  
Starch fifteen grains  
Mix, and make eight powders. One, every hour or two, as antispasmodic. *Swediaur.*

#### POWDER OF OPIUM AND NITRE.

R. Powdered opium four grains  
nitre

Sugar of

milk, each, one drachm and a-half  
Mix, and make six powders. As an antispasmodic. *Phabus.*

#### POWDER OF OPIUM AND SULPHUR.

R. Powdered opium  
camphor, each, two grains  
sulphur  
sugar, each, half a drachm

Mix, and make four powders. One, every three hours, in lead colic. *Hildebrand.*

#### POWDER OF OPIUM AND MUSK.

R. Powdered opium two grains  
Musk five grains  
Magnesia four grains  
Sugar of milk ten grains

Mix. To be taken every two to four hours, in delirium tremens. *Vogt.*

#### POWDER OF OPIUM AND ANTIMONY.

R. Dover's powder  
James' powder, each, four grains  
Mix. To be taken every four hours, in obstinate rheumatic pains. *Brera.*

#### PILLS OF OPIUM.

R. Powdered opium one drachm  
Soap twelve grains  
Beat into a mass, and divide into sixty pills. *U. S. Ph.*

#### PILLS OF OPIUM, HENBANE, AND HEMLOCK.

R. Powdered opium four grains  
Extract of henbane  
hemlock, each, fifteen grains

Mix, and divide into ten pills. One at night, where an anodyne is required.

*Ellis.*

PILLS OF OPIUM AND SULPHURET OF ANTIMONY.

R. Extract of opium ten grains  
Precip. sulph. antimony twelve grains  
Nitrate of potassa twenty-four grains  
Syrup sufficient

Mix, and make six pills. One at bedtime, to cause perspiration, and to ease pain in rheumatism.

*Recamier.*

PILLS OF OPIUM AND FOXGLOVE.

R. Powdered opium  
foxglove, each, six grains  
Conserve of roses sufficient

Mix, and make twelve pills. One, every four hours, in asthma, &c.

*Ellis.*

AROMATIC PILLS OF OPIUM.

R. Extract of opium  
Saffron  
Powdered cinnamon  
nutmeg  
cardamom, each, one drachm

Syrup of orange flowers sufficient  
Mix, and make pills of three grains. Known as Oriental pills, and considered to be aphrodisiac. One to three, at bedtime.

*Cadet.*

PILLS OF OPIUM AND CAMPHOR.

R. Extract of opium three grains  
Camphor six grains  
Syrup sufficient

Mix, and make six pills. One to three a-day, as an anodyne, and antispasmodic.

*Foy.*

PILLS OF OPIUM AND BUTTER OF CACAO.

R. Butter of cacao  
Powdered gum  
Arabic, each, forty-eight grains  
Extract of opium twelve grains  
Syrup of ipecacuanha sufficient

Mix, and make pills of five grains. One in the evening, as an anodyne and expectorant.

*Petit.*

PILLS OF OPIUM AND MUSK.

R. Extract of opium twelve grains  
valerian

Musk, each, twenty-four grains  
Mix, and make sixteen pills. One, then two, then three a-day, in hysteria.

*Foy.*

PILLS OF OPIUM AND SULPHATE OF ZINC.

R. Extract of opium one grain  
Sulphate of zinc four grains  
Syrup of gum sufficient

Mix, and make four pills. Two a-day, in

painful mucous discharges from the urethra or vagina.

*Foy.*

PILLS OF OPIUM, HEMLOCK, CALOMEL.

R. Extract of opium eighteen grains  
hemlock one drachm  
Calomel thirty-six grains  
Syrup of mallows sufficient

Mix, and make thirty-six pills. Two to six a-day, as alterative and sedative, in organic affections.

*Foy.*

R. Opium four grains  
Calomel six grains  
Tartar emetic one grain  
Extract of hemlock one scruple

Mix, and make eight pills; two to be taken at bedtime, in rheumatic pains.

*Brande.*

PILLS OF OPIUM AND ACETATE OF LEAD.

R. Extract of opium one grain  
Acetate of lead four grains  
Powdered henbane eight grains

Mix, and make eight pills. One, morning and evening, in epilepsy.

*Recamier.*

R. Acetate of lead twenty-four grains  
Powdered opium three grains  
Syrup sufficient

Mix, and make twelve pills. One every three hours, in hemorrhages, dysentery, and cholera.

*Chapman.*

PILLS OF OPIUM AND ACETATE OF MERCURY.

R. Extract of opium  
Acetate of mercury  
Camphor, each, twelve grains  
Syrup of poppies sufficient

Mix, and make thirty pills. One, morning and evening, in syphilis.

*Carmichael.*

PILLS OF OPIUM, NITRATE OF SILVER, &c.

R. Extract of opium seventy-two grains  
Nitrate of silver six grains  
Musk forty-eight grains  
Camphor ninety-six grains

Mix, and make ninety-six pills. One, morning and evening, gradually increasing the dose, in epilepsy, paralysis, &c.

*Foy.*

PILLS OF OPIUM, CASTOR, &c.

R. Opium half a grain  
Castor six and a-half grains  
Powdered digitalis one grain  
Syrup sufficient

Make two pills. One to be taken twice or thrice a-day. In spasmodic asthma and dyspnoea.

*A. T. Thomson.*

PILLS OF OPIUM AND LIQUORICE.

R. Powdered opium ten grains

Extract of liquorice one drachm  
Mix, and make eighty pills. One, occasionally, as an expectorant. *Wurt. Ph.*

## CONFECTION OF OPIUM.

R. Powdered opium four drachms and a-half

Aromatic powder six ounces

Clarified honey fourteen ounces

Rub the opium with the aromatic powder, add the honey, and beat together till thoroughly mixed. *U. S. Ph.*

As a stimulant narcotic, in atonic gout, flatulent colic, &c. It contains one grain of opium in thirty-six.

R. Powdered catechu four ounces  
kino three ounces

nutmeg

cinnamon, each, one ounce

Opium, dissolved in

wine, one drachm and a-half

Syrup of red roses twenty-seven ounces

Mix. Each drachm contains rather less than half a grain of opium. *Soubeyran.*

## ANTI-ODONTALGIC MASS.

R. Opium two grains

White wax two drachms

Mastic one drachm

Oil of almonds three drachms

cloves twelve drops

cochineal eight grains

Mix well into a uniform mass. To fill carious teeth. *Clarus.*

R. Opium five grains

Oil of cloves three drops

Extract of henbane five grains

belladonna ten grains

Powdered pellitory sufficient

Mix, and make a consistent mass. Used as above. *Rust.*

## BALSAM FOR THE TOOTHACHE.

R. Opium one scruple

Oil of turpentine one drachm and a-half

Oil of cloves

cajuput, each, half a drachm

Balsam of Peru two drachms

Mix. *Beasley.*

R. Opium

Camphor, each, two scruples

Dissolve in a little alcohol, and add

Oil of cloves one drachm

guaiacum two drachms

nutmeg six drachms

Mix. *Van Mons.*

## TOOTHACHE DROPS.

R. Opium

Camphor, each, ten grains

Alcohol sufficient

Oil of cloves

cajuput, each, one drachm

Mix. *Copland.*

## ANTIDYSENTERIC OPLATE.

R. Purified opium four grains

Ipecacuanha half a drachm

Tormentilla one drachm

Syrup of whortleberries

Conserve of red

roses, each, six drachms

Mix. Dose, one drachm, every hour.

*Quarin.*

## PLASTER OF OPIUM.

R. Powdered opium two ounces

Burgundy pitch three ounces

Lead plaster one pound

Boiling water four fl. ounces

Melt together the pitch and plaster; then add the opium mixed with the water, and boil to the proper consistence. *U. S. Ph.*

As an application in rheumatic and other pains.

## PLASTER OF OPIUM AND CAMPHOR.

R. Powdered opium

camphor

soap, each, one drachm

Laudanum sufficient

to make a plaster *Ellis.*

R. Opium

Camphor, each, half a drachm

Lead plaster sufficient

Mix. For local pains. *Paris.*

R. Opium one drachm

Simple plaster two ounces

Galbanum one ounce

Oil of caraway two drachms

Melt the last three ingredients, and add the opium. As an application to the abdomen, in flatulent colic, diarrhoea, and dysentery. *Swediaur.*

## LINIMENT OF OPIUM.

R. Soap six ounces

Opium one ounce and a-half

Camphor three ounces

Oil of rosemary six fl. drachms

Rectified spirit two pints

Macerate the soap and opium in the spirit for three days; filter; add the oil and camphor, and agitate briskly. *Ed. Ph.*

As an embrocation in rheumatic pains, sprains, &c.

## LINIMENT OF OPIUM AND OIL OF CHAMOMILE.

R. Opium

Oil of chamomile, each, half a drachm

almonds two drachms



Mix. As a friction around the eyes, in spasm of the eyelids. *Weller.*

ANTI-OTITIC MIXTURE.

R. Opium four grains  
Saffron ten grains  
Myrrh half a drachm  
Juice of mallows half an ounce  
Oil of almonds two ounces  
Triturate well together, and strain. As an injection into the ear, in pain in that organ. *Pierquin.*

ANODYNE OINTMENT.

R. Opium  
Saffron, each, one scruple  
Yolk of egg one  
Poplar ointment  
Acetate of lead ointment, each, one ounce  
Mix. As an application to painful hemorrhoids. *Fulda Ph.*  
R. Syrup of opium one ounce  
Lard three ounces  
Essence of roses four drops  
Mix. For chapped lips. *Pierquin.*  
R. Opium half a drachm  
Extract of hemlock one drachm  
Basilicon ointment half an ounce  
Mix. As an application to gangrenous ulcers. *Carus.*

R. Opium ten grains  
Alum fifteen grains  
Lard half an ounce  
Mix. In the treatment of ulcerated, atonic buboes. *Simon.*

OINTMENT OF OPIUM AND TAR.

R. Powdered opium two drachms  
Tar ointment one ounce  
Mix. As an application to hemorrhoids. *Ellis.*

CERATE OF OPIUM.

R. Opium half a drachm  
Yolk of egg one  
Mix well, and add  
Simple cerate one ounce  
Triturate well together. *Lagneau.*

SYRUP OF OPIUM.

R. Extract of opium one part  
Water sixteen parts  
Syrup five hundred parts  
Dissolve the opium in the water, filter, add it to the syrup, heated to boiling, strain. *Par. Cod.*

SUCCINATED SYRUP OF OPIUM.

R. Syrup of opium one ounce  
Spirit of amber two grains  
Mix. *Soubiran.*

ANODYNE COLLYRIUM.

R. Extract of opium ten grains  
Camphor six grains  
Boiling water twelve fl. ounces  
Rub the opium and camphor together, and add the water, and strain. *Ellis.*  
R. Extract of opium four grains  
Rose water four ounces  
Dissolve, and strain. *Par. Cod.*

OPIUM FOMENTATION.

R. Extract of opium two drachms  
Boiling water one pint  
Dissolve, and strain. As a fomentation in pruriginous affections. *Radius.*

INJECTION OF OPIUM.

R. Opium twelve grains  
Solution of subacetate of lead twelve drops  
Water nine ounces  
Mix. As an injection in gonorrhœa. *Girtanner.*

R. Extract of opium six grains  
belladonna one drachm and a-half  
Decoction of wild lettuce one pound  
Dissolve. As an injection in neuralgia, and hemorrhage of the urethra and vagina. *Foy.*

R. Extract of opium one and a-half grain  
Distilled water five fl. drachms  
Dissolve. As an injection in coryza, and other inflammations of the nasal, mucous membrane. *Deschamps.*

He directs one nostril to be closed by the finger, and the liquid to be drawn up into the other, &c.

CLYSTER OF OPIUM.

R. Powdered opium two grains  
Mucilage of gum Arabic half fl. ounce  
Tepid milk two fl. ounces  
Mix. *Ellis.*

R. Flaxseed one ounce  
Boiling water six ounces  
Infuse for an hour, strain, and add  
Extract of opium two grains  
Dissolve. *Spielman.*

SUPPOSITORY OF OPIUM.

R. Powdered opium two grains  
Soap four grains  
Mix. *Ellis.*

LINCTUS WITH OPIUM.

R. Extract of opium one grain  
Peruvian bark four grains  
Camphor six grains  
Sugar one drachm  
White linctus four ounces

Mix. In bronchitis, when the cough is violent. *Foy.*

#### MIXTURE OF OPIUM AND SYRUP OF POPPIES.

R. Opium two to three grains  
Syrup of poppies one ounce  
Chamomile water six ounces

Mix. A spoonful every half hour, in dysentery. *Swediaur.*

#### MIXTURE OF OPIUM AND LIME WATER.

R. Extract of opium one grain  
Lime water

Oil of almonds, each, three fl. drachms

Mix. For the treatment of sore nipples, to be applied on dossils of lint. *Sibergundi.*

#### MIXTURE OF OPIUM AND CINNAMON WATER.

R. Powdered opium ten grains  
Sugar one drachm  
Cinnamon water six fl. ounces

Mix. A tablespoonful every two hours, in tetanus and colica piftonum. *Ellis.*

#### WATER OF OPIUM.

R. Opium, in small pieces one pound  
Water six pounds

Macerate for forty-eight hours, and distil one pound. It is given in the dose of one to four drachms, in syrup of sugar. *Foy.*

#### MURIATE OF OPIUM.

R. Powdered opium one ounce  
Muriatic acid one ounce  
Distilled water twenty ounces

Mix, and shake the mixture frequently, for fourteen days, strain, and filter. Dose, from twenty to forty drops. Said not to cause headache. *Nichol.*

#### VINEGAR OF OPIUM. BLACK DROP.

R. Powdered opium eight ounces  
Coarsely powdered  
nutmeg one ounce and a-half  
Saffron half an ounce  
Sugar twelve ounces  
Distilled vinegar sufficient

Digest the opium, nutmeg, and saffron, with a pint and a-half of distilled vinegar, on a sand-bath, with a gentle heat, for forty-eight hours, and strain. Digest the residue with an equal quantity of distilled vinegar, in the same manner, for twenty-four hours. Put the whole into a displacement apparatus, and return the filtered liquor as it passes, until it comes away clear. When the filtration has ceased, pour distilled vinegar gradually on the residue in the filter, until the whole quan-

tity of filtered liquor amounts to three pints. Lastly, add the sugar, and, by means of a water-bath, evaporate to three pints and four fl. ounces. Diluted acetic acid may be substituted for the distilled vinegar. *U. S. Ph.*

Dose, about six minims, which are nearly equivalent to one grain of opium.

#### LANCASTER BLACK DROP.

R. Opium half a pound  
Verjuice three pints  
Bruised nutmeg one ounce and a-half  
Saffron half an ounce

Boil to a proper consistence; add two spoonfuls of yeast, and let stand in a warm place for six or eight weeks, and then in the open air till of the consistence of syrup, then decant, filter, and bottle; adding a little sugar to each bottle. Dose, six to ten drops. *Armstrong.*

#### HOULTON'S BLACK DROP.

R. Opium two ounces and a-half  
Diluted acetic acid thirty-two ounces  
Digest for six days with a gentle heat, and filter, evaporate to an extract; macerate in

Rectified spirit five fl. ounces  
Distilled water thirty-five ounces  
for eight days, and filter. *Beasley.*

About the strength of laudanum.

#### GUY'S HOSPITAL BLACK DROP.

R. Powdered opium eight ounces  
Juice of crab apples two pints  
boil gently for half an hour, decant, and boil residue with one pint more of the juice, for a quarter of an hour; express, and strain; mix the two liquors, and add  
Bruised nutmeg one ounce  
Saffron half an ounce  
Yeast half fl. ounce.

Ferment for some days; macerate for fourteen days; filter, and evaporate by a water-bath to consistence of thin syrup. Dose, two to ten minims. *Beasley.*

#### ROUSSEAU'S BLACK DROP.

R. Opium four ounces  
Honey twelve ounces  
Hot water five pounds  
Yeast two drachms

Dissolve the opium and honey separately in the hot water, mix, and add the yeast; keep at about 80° F. for a month; express; filter; distil off sixteen ounces, and evaporate residue to ten ounces; add to it one and a half ounce of strong spirit; mix, and filter. Four drops are equivalent to one grain of opium. *Beasley.*

PORTER'S BLACK DROP.

R. Opium four ounces  
Citric acid two ounces  
Beat together in a mortar, and add  
Boiling distilled water one pint  
Triturate well together, let stand for  
twenty-four hours, and filter. Dose, from  
six to twenty-four drops. *Redwood.*

ACETATED TINCTURE OF OPIUM.

R. Opium two ounces  
Vinegar twelve fl. ounces  
Alcohol half a pint  
Rub the opium with the vinegar, then  
add the alcohol, macerate for fourteen  
days, express, and filter through paper.  
*U. S. Ph.*

Dose, ten minims or twenty drops, which are  
equivalent to a grain of opium.

MIXTURE WITH BLACK DROP.

R. Houlton's black drop ten drops  
Spirit of nitric ether half a drachm  
Distilled water one ounce  
Mix. To be taken at once. *Foy.*

SEDATIVE MIXTURE.

R. Opium two grains  
Distilled vinegar half an ounce  
Plantain water six ounces  
Syrup of white poppy one ounce  
Mix, and filter. In spoonful doses, in  
hæmoptysis with spasms. *Pierquin.*

WINE OF OPIUM.

R. Powdered opium two ounces  
Bruised cinnamon  
cloves, each, one drachm  
Wine one pint  
Macerate for fourteen days, agitating occa-  
sionally, express, and filter. *U. S. Ph.*

Dose, about thirteen minims or twenty-five  
drops, equivalent to a grain of opium.

R. Extract of opium two ounces  
Cinnamon water ten ounces  
Alcohol two ounces  
White wine four ounces  
Mix, and macerate for four days, and filter.  
*Brugnatelli.*

About the same strength as the last.

R. Acetous extract of opium six drachms  
Sherry wine ten ounces  
Brandy two ounces  
Mix; macerate for four days, and filter;  
each drachm contains four grains of opium.  
*Lalouette.*

LAUDANUM OF SYDENHAM.

R. Opium two ounces  
Saffron one ounce

Bruised cinnamon

cloves, each, one drachm  
Sherry wine one pint  
Mix, and macerate for fifteen days, and  
filter. *Par. Cod.*

Twenty drops are equivalent to a grain of  
opium.

COLLYRIUM OF WINE OF OPIUM.

R. Decoction of flaxseed four ounces  
Saffron one drachm  
Wine of opium one drachm  
Macerate the saffron in the flaxseed decoec-  
tion, strain, and add the wine of opium.  
*Foy.*

R. Acetate of copper three grains  
Dissolve in  
Rose water eight ounces  
add,  
Wine of opium one drachm  
In chronic ophthalmia. *Foy.*

FOMENTATION OF WINE OF OPIUM.

R. Opium one ounce  
Wine two pints  
Boil down to one pint. As an anodyne  
application, in gouty and rheumatic pains,  
&c. *Pierquin.*

ODONTALGIC DROPS.

R. Wine of opium  
Hoffmann's anodyne  
Oil of peppermint equal parts  
Mix. In frictions on the cheek, and ap-  
plied to carious teeth, on cotton.  
*Dobberan.*

MIXTURE OF WINE OF OPIUM.

R. Wine of opium ten drops  
Cinnamon water one ounce  
Balm water two ounces  
Tincture of castor twenty drops  
Syrup of opium half an ounce  
Mix. In spoonful doses, in uterine colic.  
*Augustin.*

R. Cascarilla  
Colombo, each, two drachms  
Boiling water sufficient  
to obtain seven ounces of strained infusion.  
Add to this

Wine of opium  
Sulphuric ether, each, twenty drops  
To be taken by degrees, in chronic diar-  
rhœa. *Brera.*

TINCTURE OF OPIUM. LAUDANUM.

R. Opium, powdered, two ounces and  
a-half  
Diluted alcohol two pints  
Macerate for fourteen days, and filter.  
*U. S. Ph.*



Dose, thirteen minims or twenty-five drops, equivalent to a grain of opium.

#### BATTLEY'S SEDATIVE DROPS.

R. Hard extract of opium three ounces  
Boiling distilled water thirty ounces  
Dissolve, when cold filter, and add  
Rectified spirit six ounces  
and water sufficient to make up two pints.  
*Cooley.*

#### SMITH'S CONCENTRATED LAUDANUM.

R. Denarcotized opium four ounces  
Dissolve in alcohol, filter, evaporate to consistence of an extract, redissolve in water, and evaporate the filtered solution to twelve ounces; add  
Rectified spirit twenty-two drachms  
Distilled water sufficient  
to make up sixteen ounces. Dose, three to five drops.  
*Beasley.*

#### COMPOUND TINCTURE OF OPIUM.

R. Extract of liquorice  
Opium, each, half an ounce  
Carbonate of potassa one drachm  
Water three pints  
Boil down to one pint, filter, and evaporate to twelve ounces, then add  
Spirit of pimento five fl. ounces  
Powdered cochineal half a drachm  
Let rest for some time, and filter.  
*Med.-Chirurg. Rev.*

#### AMMONIATED TINCTURE OF OPIUM.

R. Benzoic acid  
Chopped saffron, each, six drachms  
Sliced opium half an ounce  
Oil of anise one drachm  
Spirit of ammonia two pints  
Digest for seven days, and filter. *Ed. Ph.*  
Also called *Scotch Paregoric*. Eighty minims should contain one grain of opium.

#### CAMPHORATED TINCTURE OF OPIUM.

##### PAREGORIC.

R. Powdered opium  
Benzoic acid, each, one drachm  
Oil of anise one fl. drachm  
Clarified honey two ounces  
Camphor two scruples  
Diluted alcohol two pints  
Macerate for fourteen days, and filter.  
*U. S. Ph.*

Half a fl. ounce contains rather less than a grain of opium. Dose, for an infant, five to twenty drops; for an adult, one to two fl. drachms.

#### BATEMAN'S PECTORAL DROPS.

R. Diluted alcohol four gallons  
Rasped red saunders two ounces

Digest for twenty-four hours, filter, and add

Powdered opium  
catechu  
camphor, each, two ounces

Oil of anise four fl. drachms

Digest for ten days. About as strong as camphorated tincture of opium, or two grains of opium to the fl. ounce.

*Phil. Coll. Pharm.*

#### GODFREY'S CORDIAL.

R. Tincture of opium one pint and a-half  
Sugar-house molasses sixteen pints  
Alcohol two pints  
Water twenty-six pints  
Carbonate of  
potassa two ounces and a-half  
Oil of sassafras four fl. drachms  
Dissolve the carbonate of potassa in the water; add the molasses; heat over a gentle fire, till they simmer; remove the scum; add the laudanum and oil of sassafras, previously mixed together.

*Phil. Coll. Pharm.*

Contains rather more than one grain of opium to the fl. ounce.

#### TINCTURE OF OPIUM AND SOAP.

R. Opium half an ounce  
Soap two ounces  
Alcohol sixteen ounces  
Digest for three days on a water-bath, filter, and dissolve in the liquor  
Camphor six drachms  
Oil of rosemary one drachm  
Principally used in frictions, in pains in the limbs, &c., but also given internally, in doses of thirty to fifty drops, in wine.  
*Turin Ph.*

#### SUCCINATED TINCTURE OF OPIUM.

R. Opium forty grains  
Camphor  
Amber, each, half a drachm  
Alcohol six ounces  
Digest for four days on a water-bath, and filter. As a friction in spasmodic attacks.  
*Dumas.*

#### SWEDIAUR'S TINCTURE OF OPIUM.

R. Extract of opium one drachm  
Distilled water four drachms  
Alcohol half a drachm  
Dissolve, and filter. Five drops are equivalent to a grain of opium. *Swediaur.*

#### TINCTURE OF OPIUM AND ASARABACCA.

R. Asarabacca root  
Sassafras, each, one ounce  
Aloes wood half an ounce

Opium three drachms  
 Carbonate of ammonia one drachm  
 Alcohol sixteen ounces  
 Digest for twenty days, and filter. Dose, six to thirty drops. In hysteria and epilepsy. *Cottareau.*

WARNER'S TINCTURE OF OPIUM.

R. Opium  
 Soap, each, six drachms  
 Nutmeg one drachm  
 Camphor four drachms  
 Saffron forty grains  
 Spirit of ammonia nine ounces  
 Digest for ten days, agitating occasionally, then filter. *Van Mons.*

LETTSON'S ELIXIR.

R. Opium  
 Benzoic acid  
 Saffron, each, two drachms  
 Camphor four scruples  
 Oil of anise one drachm  
 Ipecacuanha  
 Balsam of tolu, each, half an ounce  
 Alcohol two pounds  
 Macerate for ten days, and filter. Dose, five to twenty drops, in hooping-cough. *Augustin.*

CLYSTER OF LAUDANUM.

R. Tincture of opium half a drachm  
 Infusion of flax-seed two to four fl. ounces  
 Mix. *Ellis.*  
 R. Decoction of starch four fl. ounces  
 Tincture of opium thirty minims  
 Mix. In obstinate vomiting, strangury from blisters, painful affections of the genito-urinary apparatus, tenesmus, &c. *Lond. Ph.*

CLYSTER OF LAUDANUM AND VALERIAN.

R. Tincture of opium five to six drops  
 Infusion of valerian three ounces  
 Mix, in spasms, in children. *Swediaur.*

OPIATE LINIMENT.

R. Olive oil two fl. ounces  
 Tincture of opium two fl. drachms  
 Solution of acetate of lead half a fl. ounce  
 Mix. *Ellis.*  
 R. Sulphuric ether two fl. drachms and a-half  
 Spirit of camphor two fl. ounces and a-half  
 Laudanum half a fl. ounce  
 Mix; as an embrocation in flatulent colic. *Ainslie.*

R. Tincture of opium  
 Spirit of sulphuric ether camphor, each, two fl. ounces  
 Mix. As an embrocation in rheumatism, tooth, or earache, &c. *Ellis.*

LINIMENT OF LAUDANUM AND LIME WATER.

R. Tincture of opium two drachms and a-half  
 Lime water one ounce  
 Oil of almonds two ounces  
 Mix. To be applied on lint; four times a-day, on painful syphilitic pustules. *Phabus.*

LAUDANUM OINTMENT.

R. Tincture of opium one drachm  
 Spermaceti ointment two ounces  
 Mix. As an application, morning and evening, to painful hemorrhoids. *Brera.*

BROWN COUGH MIXTURE.

R. Paragoric elixir one ounce  
 Antimonial wine half an ounce  
 Powdered gum Arabic  
 Extract of liquorice, each, three drachms  
 Water six ounces  
 Mix well. A tablespoonful, every three or four hours, in catarrh. *Dewees.*

R. Extract of liquorice  
 Powdered gum Arabic, each, two drachms  
 Boiling water four fl. ounces  
 Dissolve, and add  
 Antimonial wine two fl. drachms  
 Tincture of opium twenty minims  
 Mix. A tablespoonful occasionally. *Wood.*

OPIATE LINCTUS.

R. Tincture of opium two fl. drachms  
 Diluted sulphuric acid two fl. drachms and a-half  
 Molasses eight fl. ounces  
 Water three fl. ounces  
 Mix. A teaspoonful occasionally, to quiet cough. *Beasley.*

ANODYNE DRAUGHT.

R. Camphor mixture nine drachms  
 Nitrate of potassa six grains  
 Comp. spirit of ether one drachm  
 Tincture of opium ten to twelve minims  
 Syrup of poppies two drachms  
 Mix. To be taken at bedtime. *Copland.*  
 R. Tincture of opium twelve minims  
 Water one fl. ounce  
 Pimento water three drachms

Syrup of poppies one drachm  
 Mix. *Beasley.*  
 R. Tincture of  
   opium fifteen to twenty-five drops  
 Syrup of poppies two fl. drachms  
 Spirit of cinnamon one fl. drachm  
 Distilled water one fl. ounce and a-half  
 Mix. *Ellis.*

#### MIXTURE OF LAUDANUM AND TARTAR EMETIC.

R. Laudanum one fl. drachm  
 Tartar emetic four grains  
 Camphor mixture eight fl. ounces  
 Mix. In delirium tremens, and the advanced stage of low fevers. Dose, half a fl. ounce to one fl. ounce. *Graves.*

#### WISTAR'S COUGH LOZENGES.

R. Powdered gum Arabic  
   extract of liquorice  
   sugar, each, two drachms  
   opium six grains  
 Oil of anise four drops  
 Mix, and add  
 Distilled water sufficient  
 Make into mass, and divide into sixty lozenges. One, three or four times a-day. *Ellis.*

### OPOPONAX.

#### OPOPONAX.

A gum resin obtained from the *Opoponax chirontium*, a tall, parsnep-like plant, a native of the warm countries of Europe and the Levant.

*Sex. Syst.* Pentand. digyn. *Nat. Syst.* Apiaceæ.  
 Decandolle. iv. 170. Griffith, Med. Bot. 323.

It occurs in tears and irregular lumps, or fragments, of a reddish-yellow color. Its odor is strong, peculiar, and unpleasant, and its taste bitter and acrid. It is seldom used in this country, but was formerly much esteemed in a variety of diseases. The dose is from ten to thirty grains.

#### TINCTURE OF OPOPONAX.

R. Opoponax one part  
 Alcohol five parts  
 Macerate for some days, and filter. *Beral.*

#### COMPOUND TINCTURE OF OPOPONAX.

R. Round birthwort  
 Long birthwort  
 Orris root, each, half an ounce  
 Opoponax  
 Sagapenum, each, two drachms  
 Guaiacum four scruples  
 Cloves two drachms  
 Camphor three drachms  
 Alcohol ten ounces

Macerate for twenty-four hours, and filter.  
 As an application to foul venereal ulcers.

*Brera.*

#### EMULSION OF OPOPONAX.

R. Opoponax  
 Soap, each, one drachm  
 Yolk of egg two drachms  
 Syrup of worm-wood one ounce and a-half  
 Fennel water three ounces  
 Make an emulsion. A teaspoonful every hour, as a vermifuge. *Bories.*

### ORIGANUM.

#### ORIGANUM.

The article so designated in the U. S. Pharm. is the herb of the *Origanum vulgare*, a native of Europe, but extensively naturalized in the United States.

*Sex. Syst.* Didynam. gymnos. *Nat. Syst.* Labiatae.

Linn. Sp. Pl. 834. Griffith, Med. Bot. 511.

The dried herb has an aromatic, agreeable odor, and a hot, pungent taste, depending on the presence of a volatile oil. It is somewhat tonic and stimulating, and has been used in the form of infusion as a diaphoretic and emmenagogue. The oil is employed in stimulating liniments.

### ORYZA.

#### RICE.

The seed or grain of *Oryza sativa*, an annual plant, said to be a native of Ethiopia, but now extensively cultivated in most warm countries.

*Sex. Syst.* Hexand. digyn. *Nat. Syst.* Graminaeæ.

Linn. Sp. Pl. 475. Griffith, Med. Bot. 660.

This grain as found in commerce is deprived of its cuticle, is white, dry, hard, inodorous, and of a farinaceous taste. It is very nutritive, and, in the form of a decoction, emollient.

#### RICE WATER.

R. Rice, well washed, two ounces  
 Water two quarts  
 Boil for an hour and a half, then add sugar and flavoring, as may be required. *Ellis.*  
 R. Rice five drachms  
 Water sufficient  
 to obtain a quart of decoction; add  
 Liquorice root three drachms  
 Let stand for some time, and strain, adding sugar, &c., at will. *Cottreau.*

#### RICE GRUEL.

R. Ground rice one ounce  
 Cinnamon one drachm  
 Water one quart  
 Boil for forty minutes, adding the aromatic near the close. Strain, and sweeten. *Ellis.*

#### MUCILAGE OF RICE.

R. Rice one ounce



Macerate it for three hours in  
 Tepid water one quart  
 Then boil slowly for an hour, and strain.  
*A. T. Thomson.*

## RICE JELLY.

R. Rice sufficient  
 Macerate in as much water as will cover  
 it, boil slowly, adding water as it evapo-  
 rates, until the rice is reduced to a pap,  
 sweeten and flavor, and pass through a fine  
 sieve. On cooling, it becomes a moderately  
 consistent jelly. A good diet in dys-  
 pepsia, &c.

## OVUM.

## EGGS.

## OIL OF EGGS.

R. Yolk of eggs at will  
 Heat gently till the moisture is dissipated,  
 introduce into a displacer, and exhaust by  
 ether, distil the product in a water-bath,  
 heat the residue, till the albuminous mat-  
 ter coagulates, then strain. *Par. Cod.*

Was, at one time, much esteemed as an appli-  
 cation to hemorrhoids, chaps, and excoriations,  
 &c.

## EMULSION OF EGGS.

R. Yolk of eggs two  
 Powdered sugar one ounce  
 Boiling water fourteen ounces  
 Triturate the eggs and sugar in a marble  
 mortar, gradually adding the water.  
*Beral.*

## EMOLLIENT CLYSTER OF EGGS.

R. Yolk of eggs two  
 Decoction of bran one pound  
 Mix. *Pierquin.*

## RESTORATIVE CLYSTER OF EGGS.

R. Yolk of egg one  
 White wine two ounces  
 Beef tea, without salt, eight ounces  
 Mix. *Radius.*

## MIXTURE WITH EGGS.

R. Yolk of egg one  
 Cream six ounces

Cinnamon barley water six drachms  
 Sugar one ounce  
 Mix. To be taken in teaspoonful doses,  
 in the convalescence of children. *Foy.*

R. Yolk of egg one  
 Water two pints

Make an emulsion, and add  
 Common salt half a drachm

Mix. In mesenteric atrophy of children.  
*Hufeland.*

## EGG AND BRANDY MIXTURE.

R. Brandy

Cinnamon water, each, four fl. ounces

Yolk of eggs two

Sugar half an ounce

Oil of cinnamon two minims

Mix. *Lond. Ph.*

As a stimulant in the sinking stage of fevers.

## EGG AND WINE MIXTURE.

R. Yolk of eggs two

Oil of cinnamon twenty drops

Mix, and add

Madeira wine

Cinnamon water, each, three fl. ounces

Distilled water two fl. ounces

Sugar two drachms

Mix. Three or four spoonfuls for a dose.

In convalescence from low fevers. *Ellis.*

## LINIMENT OF EGGS.

R. Yolk of egg one

Flaxseed oil two ounces

Mix well. As an application to burns.

*Radius.*

R. White of egg one

Flaxseed oil three ounces

Mix well. As the last. *Mynsicht.*

## CERATE OF EGGS.

R. Yolk of egg one part

Simple cerate two parts

Mix well. *Foy.*

R. Yolk of a hard-boiled egg one

Yellow wax half an ounce

Almond oil one ounce and a-half

Melt the wax and oil together, and add the

egg, triturating them thoroughly together.

As an application to burns. *Soubéiran.*

## P

## PAPAVER.

## POPPY HEADS.

The ripe capsules of *Papaver somniferum*. These capsules are of a more or less globular form, crowned by a radiated, persistent stigma; of a light brown color, a papery and brittle texture, inodorous, but of a slightly bitter taste. They are analogous in properties, but in a slight degree, to opium. They contain numerous, small, oleaginous seed, which are used in many preparations.

## DECOCTION OF POPPY HEADS.

R. Poppy heads, sliced, four ounces  
Water four pints  
Boil, and strain. *Lond. Ph.*

As a soothing and anodyne fomentation, in painful tumors and inflammations.

## SYRUP OF POPPY HEADS.

R. Poppy heads, bruised, fourteen ounces  
Water two gallons and a-half  
Macerate for twenty-four hours, boil down to a gallon, express, evaporate to two pints, and add

Sugar two pounds

Dose, two fl. drachms to a fl. ounce, for an infant half a fl. drachm. *Dub. Ph.*

As a sedative and hypnotic.

R. Poppy heads sixteen ounces  
Diluted alcohol four pints  
Sugar thirty ounces

Deprive the heads of their seeds; bruise them thoroughly, macerate them in twice their weight of diluted alcohol, for two days, express powerfully, add the remainder of the alcohol, and after twenty-four hours, again express. Evaporate the liquids to one pint, strain, and add the sugar, and dissolve by the aid of a gentle heat.

*W. Procter.*

## EXTRACT OF POPPY HEADS.

R. Poppy heads, bruised, fifteen ounces  
Boiling water one gallon  
Macerate for twenty-four hours, boil down to four pints, strain, and evaporate over a vapor-bath, to proper consistence.

*Ed. Ph.*

The dose is from five to ten grains.

## PECTORAL SYRUP.

R. Dates two pounds  
Jujubes one pound  
Liquorice root half a pound

Mallow root

Maidenhair

Poppy heads, each, four ounces  
Water sixteen pints

Boil, strain, and add

Sugar eight pounds

Evaporate to the consistence of syrup.

Dose, one to two ounces. *Gassicourt.*

## SEDATIVE INJECTION.

R. Simple emulsion five fl. ounces  
Decoction of poppy heads one pint  
White of egg one drachm  
Mix. As an injection in acute gonorrhœa. *Gassicourt.*

## SEDATIVE MIXTURE.

R. Flaxseed two drachms  
Poppy head one  
Water sufficient  
to obtain eight ounces of infusion, add  
Yolk of egg one  
Mix well. In painful diarrhœa. *St. Marie.*

## PAREIRA.

## PAREIRA BRAVA.

This is the root of *Cissampelos pareira*, a climbing shrub, with large, cordate, villous leaves, a native of the West Indies and South America.

*Ser. Syst.* Monœc. monad. *Nat. Syst.* Menispermaceæ.

*Linn. Sp. Pl.* 1473. *Griffith, Med. Bot.* 106.

The root, which is the officinal portion, as found in the shops, is usually in large, crooked pieces, of a dark color, externally, and yellowish within; it has at first a sweetish, and somewhat aromatic taste, but leaves a bitterish, unpleasant impression; the odor is very slight. It is tonic and alterative, and acts specifically on the bladder, diminishing irritability, and diminishing mucous secretion. The dose, in substance, is from thirty grains to a drachm.

## INFUSION OF PAREIRA BRAVA.

R. Pareira brava six drachms  
Boiling water a pint  
Macerate for two hours, and strain. *Edin. Ph.*

Dose, one to two fl. ounces, in irritation and chronic inflammation of urinary passages.

## DECOCTION OF PAREIRA BRAVA.

R. Pareira brava four drachms  
Water one pint and a-half

Boil to a pint, and strain. Dose, from eight to twelve fl. ounces, during the day.

*Brodie.*

#### EXTRACT OF PAREIRA BRAVA.

R. Powdered pareira brava      one pound  
Water      sufficient

Mix the powder with half a pint of the water; introduce into a displacement apparatus, and pour on water, till the powder is exhausted. Heat the fluid to the boiling point; strain, and evaporate to proper consistence.

*Edin. Ph.*

Dose, ten grains to half a drachm.

#### TINCTURE OF PAREIRA BRAVA.

R. Pareira brava      two ounces  
Diluted alcohol      one pint

Digest for seven days, and filter. *Brodie.*

Dose, fifty to sixty drops.

### PAULLINIA.

#### PAULLINIA

Is a preparation from the seeds of *Paullinia sorbilis*, a climbing plant, indigenous to Brazil. The seeds are dried, pounded, mixed with cocoa and cassava, and with water; formed into a paste, which is dried. This preparation is of a brown color, hard, light, inodorous, and of a somewhat astringent taste. It is highly esteemed in Brazil, in diseases of the bowels and bladder, and has been used in Europe, as a tonic in these, and in chlorosis, &c., with much success.

*Sex. Syst.* Octan. trigyn. *Nat. Syst.* Sapindaceæ.

Martins. Mat. Med. Bras. 59.

#### LOZENGES OF PAULLINIA.

R. Paullinia      five drachms and a-half  
Vanilla sugar      one pound and a-half  
Water      sufficient

Mix, and form lozenges of ten grains each.

*Gavrelle.*

#### SYRUP OF PAULLINIA.

R. Paullinia      two drachms and a-half  
Simple syrup      two pints

Mix. Dose, half a fl. ounce. *Gavrelle.*

#### PILLS OF PAULLINIA.

R. Paullinia      sufficient  
Make into pills of a grain and a-half.

Five to ten, as occasion may require.

*Gavrelle.*

#### ALCOHOLIC EXTRACT OF PAULLINIA.

R. Powdered paullinia      at will  
Alcohol      sufficient

Introduce into a displacement apparatus, and pass the alcohol through till the powder is exhausted; distil off the spirit, and

evaporate to proper consistence. Eight to ten grains, during the day.

*Dechastelus.*

#### CHOCOLATE WITH PAULLINIA.

R. Paullinia      one ounce  
Chocolate      sixteen ounces

Mix, and form a paste. As a restorative, in diseases of debility, chlorosis, &c.

*Beasley.*

### PETROLEUM.

#### PETROLEUM.

A liquid bitumen, of a fluid consistence, of a brownish black, or reddish brown color, having a bituminous odor, and an acrid, strong taste. It is found in various parts of the world, issuing from the earth in the form of springs. Many of these exist in the United States, as on the shores of Seneca Lake, on the Kenhawa, &c. These products are light colored and more liquid than the Barbadoes and other foreign varieties, and are known as Seneca oil.

Petroleum is a stimulating antispasmodic and sudorific, with some anthelmintic properties. The dose is from half a drachm to a drachm.

#### BRITISH OIL.

R. Oil of turpentine  
flaxseed, each,      eight fl. ounces  
amber  
juniper, each,      four fl. ounces  
Barbadoes petroleum      three fl. ounces  
Seneca oil      one fl. ounce

Mix. As a rubefacient liniment.

*Phil. Coll. Pharm.*

R. Oil of turpentine      eight fl. ounces  
Barbadoes petroleum      four fl. ounces  
Oil of rosemary      four fl. drachms

Mix. *Gray.*

#### EMBROCATION OF PETROLEUM.

R. Petroleum      half an ounce  
Oil of turpentine      one drachm  
Spirit of juniper      four ounces

Mix. As a friction to the loins, in atony of the urinary passages and dropsy.

*Radiis.*

R. Petroleum      half an ounce  
Spirit of lavender      one ounce  
Laudanum      two drachms

Mix. As a lotion to frozen limbs.

*Phæbus.*

R. Petroleum  
Alcohol, each,      one ounce

Mix. *Saunders.*

R. Petroleum      one drachm and a-half  
Spirit of ammonia      two ounces

Mix. As a remedy for chilblain. *Radiis.*

#### OINTMENT OF PETROLEUM.

R. Petroleum      three drachms



Camphor one scruple  
Simple ointment one ounce and a-half  
Mix. *Radiu.*

## PLASTER OF PETROLEUM.

R. Resin half an ounce  
Camphor one drachm  
Opium half a drachm  
Petroleum sufficient  
Mix. As an application in chronic rheumatism. *Radiu.*

## ANTHELMINTIC MIXTURE OF PETROLEUM.

R. Petroleum half an ounce  
Tincture of assafetida six drachms  
Mix. Forty drops, three times a-day, in cases of tape-worm. *Schwartz.*

## DIURETIC MIXTURE OF PETROLEUM.

R. Petroleum two drachms  
Tincture of squill one drachm  
Spirit of juniper six drachms  
Mix. Forty drops, three times a-day, in dropsy. *Vogt.*

## PETROSELINUM.

## PARSLEY.

Parsley, or *Petroselinum sativum*, is a biennial, herbaceous plant, with a fusiform root; a native of southern Europe, but generally cultivated in our gardens, for the sake of its leaves, which are used for culinary purposes.

*Sex. Syst.* Pentand. digyn. *Nat. Syst.* Apiaceæ.  
Hoffmann, Umb. 1, t. 1. Griffith, Med. Bot. 318.

The root, which is the officinal portion, is fusiform, white, fleshy, of a pleasant odor and a somewhat sweetish, aromatic taste, becoming inert by drying; it should therefore be used in recent state. It is diuretic and slightly aperient.

## INFUSION OF PARSLEY ROOT.

R. Parsley root one ounce  
Boiling water one pint  
Infuse and strain. A teacupful, with a drachm of sweet spirit of nitre, every three or four hours. *Ellis.*

In strangury from blisters; and highly spoken of by Dr. Chapman, in dropsies.

## OIL OF PARSLEY.

R. Parsley seeds one part  
Water four parts  
Distil, and separate the oil.

*Brunswick Ph.*

Carminative, and also said to be very efficacious in gonorrhœa, in doses of three or four drops, three times a-day.

## PHLORIDZINA.

## PHLORIDZINE.

A bitter principle obtained from the bark of the apple, pear, cherry, and plum, especially from that of the root. It is white, very bitter, and is said to be a powerful febrifuge. It is obtained by boiling the fresh bark of the root for two hours in sufficient water to cover it, decanting the decoction, and renewing the process. The two decoctions are united, permitted to stand for twenty-four hours, when a deposit of phloridzine will take place, and, by evaporation, an additional portion will be obtained. This impure product is to be treated with distilled water and animal charcoal, to purify it.

## POWDER OF PHLORIDZINE.

R. Phloridzine ten to fourteen grains  
Sugar one drachm  
Mix. In the apyrexia of intermittent fever. *De Koninck.*

## PHOSPHORUS.

## PHOSPHORUS.

An elementary substance, usually in the form of thin sticks, which are translucent, of a pale yellowish color, and flexible consistence. It has no perceptible taste, but an alliaceous odor. It is principally made from bone ashes, which consist mainly of phosphate of lime. It is a highly powerful, diffusible stimulant, and ought never to be given in substance, and its effects should be always closely watched. It has been given in cases of extreme prostration of the vital powers.

## PHOSPHORATED OIL.

R. Phosphorus one part  
Almond oil sixteen parts  
dissolve, and add  
Oil of bergamot four drops  
Mix. Dose, five to ten drops in some mucilaginous liquid. *Magendie.*

Has been advised in gout, chronic rheumatism, &c., and also externally, as a friction.

## PHOSPHORATED ETHER.

R. Phosphorus one part  
Sulphuric ether sixty parts  
Macerate for a month in a bottle covered with black paper; decant into small bottles similarly prepared. Dose, five to ten drops, in emollient liquid, every four hours. *Van Mons.*

R. Phosphorus two grains  
Oil of peppermint half a drachm  
add to the solution  
Sulphuric ether half fl. ounce

Mix well. Two to six drops, every four hours, on sugar. In epilepsy, paralysis, &c. *Augustin.*

## PHOSPHORATED CERATE.

R. Phosphorated ether five parts  
Simple cerate twenty-four parts  
Mix. As a frietion in obstinate cutaneous affections. *Foy.*

## PHOSPHORATED OIL OF TURPENTINE.

R. Phosphorus two grains  
Oil of turpentine four fl. drachms  
Mix, and dissolve. Dose, ten to twelve drops, in obstinate intermittents; to be given in a cupful of oatmeal gruel. *Hufeland.*

## PHOSPHORATED LINIMENT.

R. Phosphorus six grains  
Oil of almonds one ounce  
Caustic ammonia  
Camphor, each, two grains  
Mix. *Augustin.*

## PHOSPHORATED OINTMENT.

R. Phosphorated ether one drachm  
Lard one ounce  
Rub together. *Guibourt.*

## PHOSPHORUS PASTE.

R. Phosphorus eight parts  
Lukewarm water one hundred and eighty parts  
Rye meal one hundred and eighty parts  
Melted butter one hundred and eighty parts  
Sugar one hundred and twenty parts  
Liquefy the phosphorus in the water; pour into a mortar, and add the meal; when cold, add the butter and sugar. An active poison for rats and mice. *Simon.*

## PHYTOLACCA.

## POKE.

Both the berries and the root of the Poke, or *Phytolacca decandra*, are officinal. It is a large, herbaceous plant, with a perennial root, and bearing numerous clusters of dark purple berries.

*Sex. Syst.* Decand. decagyn. *Nat. Syst.* Phytolaccaceæ.

*Linn. Sp. Pl.* 631. *Griffith, Med. Bot.* 535.

The root, as found in the shops, is in transverse slices, of a whitish brown externally; and exhibiting on the cut surfaces numerous concentric rings. The taste is somewhat saccharine, followed by a sensation of acrimony; the odor of the fresh root is somewhat like that of ginseng, but this disappears on drying. It is emetico-cathartic, with some narcotic properties. It has been used as an alterative, in syphilis, rheumatism, and chronic eruptions. The berries have

also been praised in the same complaints. The dose of the powdered root, is from one to five grains, as an alterative; from ten to thirty as an emetic.

## OINTMENT OF POKE.

R. Powdered root, or leaves of poke one drachm  
Lard one ounce  
Rub together. As an application in tinea capitis, psora, &c. *G. B. Wood.*

## PIMENTA.

## ALLSPICE.

This, which is also called *Jamaica pepper*, is the unripe berries of *Eugenia pimenta*, a beautiful evergreen tree, which is indigenous to the West Indies and South America.

*Sex. Syst.* Icosand. monog. *Nat. Syst.* Myrtaceæ.

*Decandolle, Prod.* iii. 285. *Griffith, Med. Bot.* 300.

The berries, which are the officinal part, are collected before they are ripe, and dried in the sun. In this state they are round, brown, somewhat rough, and a little larger than a peppercorn. They have an aromatic, agreeable odor, and a powerful, clove-like taste. Pimento is a warm, aromatic stimulant, but is more employed as a condiment than in medicine. The dose, in powder, is from ten to forty grains.

## BOLUS OF ALLSPICE.

R. Powdered allspice  
cinnamon four grains  
saffron, each, four grains  
opium one grain  
consperse of roses sufficient  
Mix, and make two boluses. In chronic diarrhoea. *Foy.*

## WATER OF ALLSPICE.

R. Allspice one pound  
Diluted alcohol seven fl. ounces  
Water sixteen pints  
Distil eight pints. *Lond. Ph.*

Used as a carminative. Dose, one to two fl. ounces.

## SPIRIT OF ALLSPICE.

R. Allspice, bruised, three ounces  
Diluted alcohol one gallon  
Water sufficient  
To prevent empyreuma. Macerate for twenty-four hours; distil off a gallon. Used in same cases as other aromatic spirits, in doses of one to two fl. drachms. *Dub. Ph.*

## TINCTURE OF ALLSPICE.

R. Allspice one part  
Alcohol five parts  
Macerate for fifteen days, and filter. Dose, from ten to twelve drops. *Swediaur.*

## PIPER.

## BLACK PEPPER.

This article is the berries of *Piper nigrum*, a perennial, shrubby vine, from eight to twelve feet high, a native of India, and extensively cultivated in many parts of tropical Asia.

See. *Syst. Decand. trigyn.* *Nat. Syst. Piperaceæ.*  
Linn. Sp. Pl. 40. Griffith, Med. Bot. 564.

The fruit, which is the official part, is gathered before it is quite ripe, and by the drying of the pulp over the grayish white seed, become wrinkled and black; in this state they are known as *black pepper*; if permitted to ripen, and deprived of their skin by maceration, and dried, they form what is called *white pepper*, which is less active than the black.

Black pepper is a warm, carminative stimulant, but is principally used as a condiment. It has, however, been used in gonorrhœa, &c., and in the treatment of intermittent fevers, and also as an external application, in the form of ointment, to tinea capitis. The dose is from ten to twenty grains.

## CONFECTION OF BLACK PEPPER.

R. Powdered black pepper  
    elecampane, each, one pound  
    fennel seeds three pounds

Honey

Sugar, each, two pounds

Rub the first three ingredients and the sugar together, and keep in a covered vessel. When to be used, add the honey, and incorporate thoroughly (or seven ounces of the powder with two ounces of the honey). *Lond. Ph.*

This, which is the same with *Ward's paste*, so celebrated in the cure of piles, must be used for a length of time, to be of service. Dose, from one to two drachms, two or three times a-day.

## WARD'S PASTE.

R. Powdered black pepper  
    elecampane, each, eight ounces  
    fennel seed, twenty-two ounces

Honey

Sugar, each, one pound

Triturate well together, and form an electuary. As a remedy in hemorrhoids. A piece, the size of a nutmeg, to be taken three times a-day. *Gray.*

## ELECTUARY OF BLACK PEPPER.

R. Powdered black pepper  
    Conserve of orange, each, one ounce  
    Syrup of orange peel sufficient  
Make an electuary. As a stomachic and carminative. A drachm, twice a-day. *Saunders.*

## RESINOUS OIL OF BLACK PEPPER.

R. Black pepper at will

Grind it, and extract by means of alcohol (8.35); distil off the alcohol. Treat the resinous residue with solution of potassa, which removes all but the piperine. The alcoholic liquid is then to be saturated with diluted muriatic acid, and the fluid oleo-resin, that precipitates, is, after being washed with water, ready for use.

*W. Procter.*

## VOLATILE OIL OF BLACK PEPPER.

R. Powdered black pepper at will  
    Water sufficient  
Distil, and separate the oil from the product.

## OINTMENT OF BLACK PEPPER.

R. Powdered black pepper four ounces  
    Lard one pound  
Mix. As an application in tinea capitis. *Dub. Ph.*

## PLASTER OF BLACK PEPPER.

R. Powdered black pepper  
    Galbanum, each, three drachms  
    Pitch two ounces  
    Oil of laurel berries sufficient  
Mix. As a stimulating plaster, in rheumatism, &c. *Augustin.*

## CATAPLASM OF BLACK PEPPER.

R. Flour of mustard half a pound  
    Black pepper  
    Ginger, each, one drachm  
    Syrup sufficient  
to make a soft paste. To be applied to the pit of the stomach in colic, &c.; or to the feet, as a revulsive. *Ellis.*

PIPER LONGUM,  
LONG PEPPER,

Is the dried spikes of the *Piper longum*, or *Chavica officinarum*, &c., a climbing shrub, with diceious flowers, a native of some of the East India Islands, and cultivated in Sumatra and Java.

Linn. Sp. Pl. 41. Griffith, Med. Bot. 566.

The official portion is the fruit catkins, dried in the sun. These are aromatic; of a pungent, fiery taste; of a grayish brown color; cylindrical. This pepper has the same properties as the black, but it is little used in this country.

## CATAPLASM OF LONG PEPPER.

R. Powdered long pepper  
    ginger, each, half an ounce  
    White of egg sufficient  
Mix well into a paste. As a rubefacient application in pleurisy. *Foy.*



PIPERINUM.

PIPERINE.

A peculiar principle obtained from *Piper nigrum*. It is white, and crystallizes in four-sided prisms. It was thought to be an alkali, but the experiments of Pelletier show that it is more analogous to the resins. It has been much praised in Italy, as a febrifuge; and is also spoken of with favor by physicians of other countries. It has been supposed that its acrid taste and remedial properties were dependent on an admixture of acrid oil, but Dr. Christison has shown that such is not the case.

R. Alcoholic extract of black

pepper

at will

Treat it with water, containing a hundredth of caustic potassa; wash the residue in cold water; dissolve in alcohol; filter, and permit to evaporate and crystallize.

Guibourt.

Dose, from two to ten grains.

PILLS OF PIPERINE.

R. Piperine twenty-four grains

Crumb of bread

sufficient

Mix, and make twelve pills. One, every two hours.

Meli.

R. Piperine twelve grains

Extract of gentian

sufficient

Mix, and make twelve pills. One, every hour, during the apyrexia.

Ellis.

PILLS OF PIPERINE AND MERCURY.

R. Blue pill one grain

Piperine

Sulphate of quinine, each, two grains

Syrup

sufficient

Mix, and make a pill.

Harle.

One, three times a day, for a few days, after the paroxysm has been checked by piperine.

TINCTURE OF PIPERINE.

R. Piperine one part

Alcohol

seven parts

Dissolve, and filter.

Beral.

PISCIDIA EYTHRINA.

JAMAICA DOGWOOD.

This is a small West Indian tree, with a hard, heavy wood, and a narcotic bark, employed to intoxicate fish.

Sex. Syst. Diadelph. decand. Nat. Syst. F. baccæ.

Linn. Sp. Pl. 993. Griffith, Med. Bot. 246.

The part used is the bark of the root, which appears to be a stimulating narcotic; causing excitement of the system, copious perspiration, and profound sleep. Applied topically, to allay pain.

TINCTURE OF JAMAICA DOGWOOD.

R. Bruised Jamaica dogwood one ounce

Diluted alcohol four fl. ounces  
Digest for seven days, and filter. Full dose, as a narcotic, one fl. drachm.

Hamilton.

PIX ABIETIS.

BURGUNDY PITCH.

This is the prepared concrete juice of *Abies excelsa*, a lofty tree, a native of Europe and northern Asia.

Sex. Syst. Monœc. monadelph. Nat. Syst. Pinacæ.

Decandolle, Fl. Fr. iii. 375. Griffith, Med. Bot. 606.

It is also obtained from *A. picea*.

When pure, it is hard, brittle, opaque, of a yellowish, or brownish yellow color, and of a weak, turpentine-like taste and odor. The *Abietis resina* of the London College, is the concrete juice of several of the pine tribe, as it exudes. It is in solid, brittle tears, of a brownish-yellow color, and emits an agreeable odor when burned.

Both are used as ingredients in plaster.

PITCH PLASTER.

R. Burgundy pitch two pounds

Resin of spruce fir

one pound

Resin

Wax, each,

four ounces

Expressed oil of nutmeg

one ounce

Olive oil

Water, each,

two fl. ounces

Melt the pitch, resin, and wax together, and add first the resin of the spruce fir, then the olive oil, oil of nutmegs, and water; mix, and boil to a proper consistence.

Lond. Ph.

As a rubefacient plaster in pectoral, rheumatic, &c., affections. It often causes a serous discharge, and much irritation.

R. Burgundy pitch six ounces

Wax

half an ounce

Turpentine

one drachm

Melt, and mix.

Guy's Hosp.

AROMATIC PLASTER.

R. Burgundy pitch three ounces

Yellow wax

half an ounce

Powdered cinnamon

six drachms

Oil of pimento

lemons, each,

two drachms

Melt the resin and wax together, and strain. When they begin to thicken, on cooling, mix in the cinnamon, previously rubbed with the oils, and make a plaster.

Dub. Ph.

A good local stimulant, when applied to the region of the stomach, allaying nausea and vomiting, and relieving gastric uneasiness.

COMPOUND PITCH PLASTER.

R. Burgundy pitch two parts

White wax four parts  
 Turpentine  
 Balsam of tolu, each, one part  
 Mix, and melt. *Beral.*  
 R. Burgundy pitch twenty-four parts  
 Resin  
 Yellow wax, each, four parts  
 Resin of spruce fir twelve parts  
 Oil of nutmegs one part  
 Melt together. *Lisbon Ph.*

## PITCH CERATE.

R. Burgundy pitch six parts  
 Suet four parts  
 White wax three parts  
 Melt together. *Beral.*

## PILLS OF BURGUNDY PITCH.

R. Burgundy pitch five drachms  
 Mucilage sufficient  
 Mix, and make one hundred pills. Six to eight, three times a-day, in cutaneous affections. *Ulrich.*

## PIX CANADENSIS.

## CANADA, OR HEMLOCK PITCH.

The prepared concrete juice of the *Abies Canadensis*, a lofty tree, found in the more northern parts of the United States, in Canada, &c., and also in the mountainous portions of the Middle States.

*Sex. Syst.* Monœ. monadelph. *Nat. Syst.* Pinaceæ.

Mich. N. A. Sylv. iii. 185. Griffith, Med. Bot. 606.

The resin exudes spontaneously, and hardens on the bark, from which it is separated by boiling in water. It, however, requires a purification, by melting and straining, before it is fit for use. In this state, it is hard, brittle, of a dark yellowish brown color, which becomes darker by exposure to the air, of a peculiar, but faint odor, and a scarcely perceptible taste.

It is a mild rubefacient, much resembling Burgundy pitch in its action and powers, and is employed for the same purposes.

## PIX LIQUIDA.

## TAR.

This is an impure turpentine, obtained by the slow combustion of various species of the pine tribe. It is made in large quantities in North Carolina, and in various other places in America and Europe.

It is of a brownish black color, of a tenacious consistence, has a peculiar empyreumatic odor, and a somewhat bitter, resinous, subacid taste.

Its properties are analogous to those of the turpentine. It is used both internally and externally. The dose is from half a drachm to one drachm, several times a-day.

## TAR PILLS.

R. Tar one drachm  
 Powdered elecampane sufficient  
 Mix, and form a mass. *Beasley.*  
 R. Tar one drachm  
 Wheat flour sufficient  
 Mix, and form a mass. *G. B. Wood.*  
 R. Tar two scruples  
 Liquorice powder one scruple  
 Mix, and make sixteen pills. *Seymour.*

## TAR WATER.

R. Tar two pints  
 Water one gallon  
 Mix, stirring with a wooden rod for fifteen minutes; when the tar has subsided, strain, and keep in well-stopped bottles. *Dub. Ph.*

It is stimulant and diuretic, and was once much used in a variety of diseases, especially in those of the lungs. The dose is from one to two pints, in divided doses, in the course of the day. It is also used as a lotion in cutaneous diseases.

## TAR OINTMENT.

R. Tar  
 Suet, each, one pound  
 Melt the suet with a moderate heat, add the tar, and stir till cold. *U. S. Ph.*

A stimulant application to various cutaneous eruptions, as psoriasis and tinea capitis.

## COMPOUND TAR OINTMENT.

R. Tar ointment  
 Cerate of acetate of lead, each, half a pound  
 Mix. *St. Bart's Hosp.*

R. Tar ointment  
 Sulphur ointment equal parts  
 Mix. *Guy's Hosp.*

## PIX NIGRA.

## BLACK PITCH.

This is the solid black mass that remains after the evaporation of tar. It has a shining fracture. It is gently stimulant and tonic, and has been used internally in some cutaneous diseases, and in piles. The dose is from ten grains to a drachm, in piles. It is also employed externally.

## OINTMENT OF BLACK PITCH.

R. Black pitch  
 Wax  
 Resin, each, nine ounces  
 Olive oil sixteen fl. ounces  
 Melt together, and strain. *Lond. Ph.*

Used for the same purposes as tar ointment.

R. Black pitch  
 Resin  
 Yellow wax, each, one part  
 Olive oil four parts

Melt the two resins together, add the wax, and then the oil.

R. Black pitch	sixteen parts
Yellow wax	twelve parts
Lard	ten parts
Olive oil	two parts
Melt together.	<i>Pipon.</i>

#### PLASTER OF BLACK PITCH.

R. Black pitch	
Resin	
Suet	
Turpentine, each,	two parts
Yellow wax	three parts
Melt together.	<i>Niemann.</i>

R. Black pitch	
Resin	
Wax, each,	eight parts
Suet	one part
Melt together.	<i>Wirtem. Ph.</i>

### PLATINUM. PLATINA.

#### PLATINI BICHLORIDUM.

##### BICHLORIDE OF PLATINA.

Made by dissolving platinum in nitromuriatic acid, and evaporating the solution to dryness by a gentle heat. *Beasley.*

It, as well as a concentrated solution, is of a deep red color. It is very deliquescent and soluble in water. It is poisonous in the dose of fifteen grains, but has been used as an alterative in syphilis.

#### MIXTURE OF BICHLORIDE OF PLATINUM.

R. Bichloride of platinum	four grains
Sugar	two drachms
Distilled water	three fl. ounces
Dissolve. Dose, four fl. drachms, three times a-day.	<i>Hoefer.</i>

#### PILLS OF BICHLORIDE OF PLATINUM.

R. Bichloride of platinum	seven and a-half grains
Guaiaecum	one drachm
Powdered liquorice root	sufficient
Mix, and form twenty pills. One pill three times a-day.	<i>Hoefer.</i>

#### OINTMENT OF BICHLORIDE OF PLATINUM.

R. Bichloride of platinum	one drachm
Extract of belladonna	two drachms
Lard	four ounces
Rub well together. As an application to indolent ulcers.	<i>Hoefer.</i>

### SODII CHLOROPLATINAS.

#### CHLOROPLATINATE OF SODIUM.

Mix a solution of six parts of chloride of sodium with a solution of seventeen parts of bichloride of platina; evaporate, and crystallize. The crystals are of a deep yellow color, soluble in water and alcohol. They are analogous in their medical properties to the analogous salt of gold. Dose, one to three grains. *Beasley.*

#### INJECTION OF CHLOROPLATINATE OF SODIUM.

R. Chloroplatinate of sodium	half a drachm
Decoction of poppies	eight fl. ounces
Dissolve.	<i>Hoefer.</i>

### PLUMBUM.

#### LEAD.

A softish, blue gray, malleable metal, with a perceptible taste, and a peculiar smell when rubbed. It is not officinal in its metallic state, but its preparations are much employed, as sedatives and astringents.

### PLUMBI ACETAS.

#### ACETATE OF LEAD.

##### POWDER OF ACETATE OF LEAD.

R. Acetate of lead	
Powdered opium, each,	six grains
Sugar	twenty-four grains

Mix. Three grains, morning and evening, to check night sweats and diarrhoea, in phthisis. *Foy.*

R. Calomel	one to two grains
Acetate of lead	half to one grain

Mix, and divide into four powders. One, every three hours, in cholera infantum of infants. *Ellis.*

R. Acetate of lead	two to three grains
Opium	quarter of a grain
Acetate of soda	three grains
Sugar of milk	five grains

Mix. To be taken every hour, in hemorrhages. *Phœbus.*

#### PILLS OF ACETATE OF LEAD.

R. Acetate of lead	
Powdered mallows, each,	one drachm
Simple syrup	sufficient

Mix, and make thirty-six pills. Four to five a-day, to check sweats in phthisis. *Radius.*

R. Acetate of lead	half a drachm
Calomel	five grains
Conserve of roses	sufficient



Mix, and make ten pills; one, every two to four hours, in hematemesis. *Ellis.*

R. Acetate of lead thirty grains  
Powdered colchicum twenty grains  
opium three grains  
Mucilage of gum Arabic sufficient

Mix thoroughly, and form into ten pills. One to be taken every six hours. Used in active hemorrhages, washed down with a draught of one drachm of distilled vinegar to one fl. ounce of water. Also, given in phthisis, after bleeding, one twice a-day.

*A. T. Thomson.*

R. Acetate of lead one scruple  
Opium one grain  
Conserve of roses sufficient

Mix, and make twelve pills. One every hour at first, then every two hours, in cholera. *Graves.*

R. Acetate of lead twelve grains  
Opium six grains  
Conserve of roses sufficient

Mix, and make six pills. One to be repeated according to circumstances, in hemoptysis, &c. *Ellis.*

R. Acetate of lead six grains  
Powdered mallows  
Extract of seneka, each, one drachm  
Mix, and make sixty pills. Two to five, several times a-day, in hemoptysis. *Kopp.*

#### RUBEFACIENT PASTE.

R. Acetate of lead one ounce  
Acid sulphate of potassa three ounces  
Water sufficient  
Rub into a paste. It acts powerfully on the skin. *Clarus.*

#### COLLYRIUM OF ACETATE OF LEAD.

R. Solution of acetate of lead twelve drops  
Wine of opium forty drops  
Rose water four fl. ounces  
Mix. *Ellis.*

R. Acetate of lead one scruple  
Lime water twelve fl. ounces  
Catechu three drachms  
Honey of roses two ounces  
Dissolve, and filter. This is much more astringent than the last. *Augustin.*

#### SOLUTION OF SUBACETATE OF LEAD.

R. Acetate of lead sixteen ounces  
Litharge nine ounces and a-half  
Distilled water four pints  
Boil together, for half an hour, adding distilled water, so as to preserve the measure, filter, and keep in close-stopped bottles. *U. S. Ph.*

The *diluted solution* is made by mixing two fl. drachms of the above solution to a pint of distilled water.

#### ACETATE OF LEAD CERATE.

Acetate of lead four parts  
Soap one part and a-half  
Mix thoroughly in a heated mortar, and add

White wax three parts  
Previously melted with  
Olive oil three parts  
Mix well. *Van Mons.*

#### PLASTER OF ACETATE OF LEAD.

R. Acetate of lead one drachm  
Flowers of sulphur half an ounce  
Resin two ounces  
Melt together. As an application to venereal buboes. *Bories.*

#### PILE OINTMENT.

R. Acetate of lead fifteen grains  
Burnt cork half an ounce  
Fresh butter two ounces  
Triturate well together. *Bories.*

#### ACETATE OF LEAD OINTMENT.

R. Acetate of lead  
Extract of belladonna, each, one part  
Lard six parts  
Mix. As an application to fissures of the anus. *Foy.*

#### SUBACETATE OF LEAD CATAPLASM.

R. Common cataplasm four ounces  
Solution of subacetate of lead one fl. ounce  
Muriate of ammonia half a drachm  
Mix. As an application to indolent tumors. *Radius.*

#### SUBACETATE OF LEAD COLLYRIUM.

R. Solution of subacetate of lead five drops  
Elder water half a fl. ounce  
Laudanum ten drops  
Mix. *Rust.*

#### SUBACETATE OF LEAD GARGLE.

R. Solution of subacetate of lead half a fl. drachm  
Barley water one pint  
Simple syrup one ounce  
Mix. *Radius.*

#### SUBACETATE OF LEAD INJECTION.

R. Solution of subacetate of lead two fl. drachms  
Distilled vinegar eight fl. ounces  
Rose water twenty-four fl. ounces  
Mix. In leucorrhœa. *Young.*

#### LINIMENT FOR MILK ABSCESS.

R. Olive oil two ounces

Lead water one drachm  
 Sulphuric ether two drachms  
 Laudanum one drachm  
 Mix. A rag moistened with this liniment to be frequently applied to the inflamed part. *Devees.*  
 R. Acetate of lead one drachm  
 Distilled vinegar two ounces  
 Dissolve, and add  
 Alcohol one ounce  
 Distilled water five ounces  
 Mix. To be applied as above. *Clarke.*

## ACETATE OF LEAD LOTION.

R. Diluted solution of subacetate of lead one fl. ounce  
 Spirit of camphor three fl. ounces  
 Water one pint  
 Mix. As an application to old ulcers. *Ellis.*

## ACETATE OF LEAD CATAPLASM.

R. Crumb of bread one pound  
 Milk four pounds  
 Boil together, and add  
 Solution of subacetate of lead one fl. ounce  
*Spidmann.*

## VEGETO MINERAL WATER OF GOULARD.

R. Solution of subacetate of lead one part  
 Alcohol (.921.) four parts  
 Distilled water forty-eight parts  
 Mix. *Taddei.*

Used in fomentations, lotions, and cataplasms, and may always be replaced by the diluted solution of the subacetate.

## ACETATE OF LEAD GARGLE.

R. Acetate of lead sixty grains  
 Extract of opium six grains  
 Rose water eight fl. ounces  
 Syrup of mulberries one ounce  
 Mix. *Pierquin.*

## ACETATE OF LEAD MIXTURE.

R. Acetate of lead half an ounce  
 Sulphate of iron three drachms  
 Vinegar  
 Alcohol, each, two fl. ounces  
 Rose water six fl. drachms  
 Dissolve the acetate in the vinegar with a gentle heat; add the sulphate, and then the alcohol, mixed with the rose water. Highly praised in the sweats and colliquative diarrhœa of phthisis; in gonorrhœa and nocturnal emissions. *Gormann.*

## GOULARD'S BALSAM.

R. Oil of turpentine at will

Heat, and gradually add  
 Acetate of lead sufficient  
 Constantly stirring, till no more will dissolve; let rest, and decant while hot. Used as an application to eroding and painful ulcers. *Van Mons.*

## SUBACETATE OF LEAD CERATE.

R. Solution of subacetate of lead two fl. ounces and a-half  
 White wax four ounces  
 Olive oil nine fl. ounces  
 Camphor half a drachm  
 Melt the wax, and mix with eight fl. ounces of the oil; remove from fire, and when it begins to thicken, gradually add solution of subacetate of lead; stir till cool, then add camphor, dissolved in rest of oil, and mix. *U. S. Ph.*

## INJECTION OF SUBACETATE OF LEAD AND LIME WATER.

R. Solution of subacetate of lead thirty-four drops  
 Lime water four fl. ounces  
 Olive oil two fl. drachms  
 Mix, and shake whenever used. In inflammation of the prostate and urethra. *Foy.*

## LINIMENT OF SUBACETATE OF LEAD.

R. Solution of subacetate of lead  
 Laudanum  
 Honey of roses, each, two fl. drachms  
 Conserve of roses one ounce  
 Mix. *Guy's Hos.*

## SUBACETATE OF LEAD OINTMENT.

R. Cerate of subacetate of lead  
 Poplar ointment, each, one ounce  
 Powdered camphor two drachms  
 Mix. In inflamed acne and other cutaneous affections. *St. Marie.*  
 R. Solution of subacetate of lead  
 White wax, each, one drachm  
 Olive oil one ounce  
 Mix. As an application in ophthalmia. *Armstrong.*

## SUBACETATE OF LEAD PLASTER.

R. Olive oil fourteen fl. ounces  
 Yellow wax twenty-four ounces  
 Melt together, and add  
 Solution of subacetate of lead one fl. ounce  
 Camphor, rubbed in a little oil half a drachm  
 Mix well, and spread on linen or skin. It has been much praised in rheumatic pains, and indolent ulcers. *Van Mons.*

## PLUMBI CARBONAS.

## CARBONATE OF LEAD.

## CAMPHORATED POWDER OF CARBONATE OF LEAD.

R. Carbonate of lead           ten drachms  
 Starch                           two drachms  
 Sarcocolla  
 Gum Arabic  
     tragacanth, each,   one drachm  
 Camphor                   half a drachm  
 Triturate together.   As an application to  
 ulcers.                           *Giannini.*

## OINTMENT OF CARBONATE OF LEAD.

R. Carbonate of lead           two ounces  
 Simple ointment           one pound  
 Powder the carbonate very fine, add it to  
 the ointment previously melted, and mix.  
   *U. S. Ph.*

As an application to excoriated or ulcerated  
 surfaces.

R. Carbonate of lead           six ounces  
 Camphor                   one ounce  
 Olibanum                   two ounces  
 Rose oil                   three ounces  
 White of eggs                   seven  
 Triturate together.   Same doses as above.  
   *Harrer.*

R. Carbonate of lead           one ounce  
 Litharge                   two drachms  
 Bole armenian           one ounce  
 Honey of roses           half an ounce  
 Lard                       sufficient

Triturate together. As a dressing to phage-  
 denic and cancerous ulcers. *Swediaur.*

R. Carbonate of lead           one ounce  
 Opium                   one drachm  
 Lard                   half an ounce  
 Anodyne balsam           sufficient

Mix. As an application in facial neural-  
 gia.                           *Fouquier.*

CAMPHORATED CARBONATE OF LEAD  
OINTMENT.

R. Carbonate of lead           one ounce  
 Simple ointment           five ounces  
 Camphor                   two scruples  
 Mix.                           *Beasley.*

## PLASTER OF CARBONATE OF LEAD.

R. Carbonate of lead           one pound  
 Olive oil                   two pounds  
 White wax                   three ounces  
 Water                   two pounds

Melt the wax and oil together, add the  
 carbonate of lead, and stir till mixed, then  
 add the water and boil; malaxate, and  
 melt again without the wax. *Par. Cod.*

R. Carbonate of lead           one pound  
 Olive oil                   two pints  
 Yellow wax                   four ounces  
 Lead plaster           one pound and a-half  
 Powdered orris root           nine ounces  
 Boil together the oil and carbonate of lead,  
 adding a little water, and constantly stir-  
 ring, till they are perfectly incorporated,  
 then add the wax and plaster; when these  
 are melted, mix in the orris, and stir well.  
   *U. S. Ph., 1830.*

As a substitute for Mahy's plaster, and a good  
 application to inflamed and excoriated surfaces,  
 as bed sores, &c.

## PLUMBI CHLORIDUM.

## CHLORIDE OF LEAD.

R. Acetate of lead           nineteen ounces  
 Chloride of sodium           six ounces  
 Dissolve the two salts separately, the for-  
 mer in three pints of boiling, distilled  
 water, the latter in one pint of distilled  
 water; mix the solutions, and wash the  
 precipitate with distilled water.  
   *Lond. Ph.*

## OINTMENT OF CHLORIDE OF LEAD.

R. Chloride of lead           one drachm  
 Simple cerate           one ounce  
 Mix. As an application in cancerous ul-  
 cerations.                   *Tuson.*

## LOTION OF CHLORIDE OF LEAD.

R. Chloride of lead           one drachm  
 Water                   one pint  
 Dissolve; as a wash to cancerous ulcera-  
 tions, and in painful neuralgic tumors.  
   *Tuson.*

## PLUMBI IODIDUM.

## IODIDE OF LEAD.

R. Solution of iodide of potassium  
     acetate of lead, each,  
   sufficient

Add one solution gradually to the other,  
 till there is no longer a precipitate, wash  
 this in cold water, and dry it. *Cottercau.*

R. Iodide of potassium  
 Nitrate of lead, each,   half an ounce  
 Water                   a pint and a-half

Dissolve the salts separately, each in one-  
 half of the water; mix the solutions, col-  
 lect the precipitate on a filter of linen or  
 muslin, and wash it with water. Boil the  
 powder in three gallons of water, acidulated  
 with three ounces of pyroligneous acid.  
 Let any undissolved matter subside, main-  
 taining the temperature near the boiling



point, and pour off the clear liquor, from which the iodide of lead will crystallize on cooling. *Ed. Ph.*

This is a preferable formula to that made with the acetate of lead, as above, or that of the Lond. Ph.

PILLS OF IODIDE OF LEAD.

R. Iodide of lead four grains  
Conserve of roses one scruple  
Mix, and form twelve pills. One, night and morning, gradually increased, in scrofulous affections. *Foy.*  
R. Iodide of lead half a drachm  
Conserve of roses sufficient  
Mix, and form one hundred and twenty pills. Administered as above. *Gassicourt.*

POWDER OF IODIDE OF LEAD.

R. Iodide of lead  
Powdered foxglove, each, six grains  
Alcoholic extract of stramonium two grains  
Sugar one drachm  
Mix, and divide into twenty-four powders.  
One, four times a-day. *Gassicourt.*

OINTMENT OF IODIDE OF LEAD.

R. Iodide of lead one ounce  
Lard eight ounces  
Mix. As an application to indolent and scrofulous swellings. *Lond. Ph.*

PLUMBI OXIDUM SEMIVITREUM.

LITHARGE.

LEAD PLASTER.

R. Litharge, in fine powder, five pounds  
Olive oil one gallon  
Water two pints  
Boil together over a gentle fire, stirring constantly, till a plaster is formed. *U. S. Ph.*

LEAD CERATE.

R. Lead plaster six parts  
White wax half a part  
Melt, mix, and add  
Olive oil two parts and a-half  
*Van Mons.*

LEAD OINTMENT.

R. Olive oil eight parts  
Lard  
Butter  
Mutton fat  
Yellow wax  
Litharge, each, two parts  
Heat the oil, fat, and wax together, till they emit fumes; gradually add the li-

tharge; constantly stirring, till the mixture assumes a dark brown color, and add Pitch one part  
Strain. *Foy.*

This preparation is much used in France, under the name of *Onguent de la Mere*, as a maturing to buboes, abscesses, &c.

COMPOUND LEAD OINTMENT.

R. Lead plaster three pounds  
Olive oil one pint  
Melt together, and add a mixture of  
Prepared chalk eight ounces  
Distilled vinegar six fl. ounces  
whilst warm, to the warm plaster and oil, and stir till cold. *Lond. Ph.*  
R. Fresh root of figwort three ounces  
Leaves of henbane three handfuls  
Fresh butter one pound and a-half  
Litharge two ounces  
Yolk of eggs two  
Boil the root and leaves in the butter, till all moisture is driven off; express, and strain; add the litharge; stir till cold, and add the yolk of eggs, and incorporate well. *Saxon Ph.*

Celebrated as an application to painful hemorrhoids.

DIAPALMA PLASTER.

R. Lead plaster nine pounds  
White wax nine ounces  
Melt by a gentle heat, and add  
Sulphate of zinc four ounces  
Dissolve in a little water; continue the heat, constantly stirring till all moisture is evaporated. *Guibourt.*

GAULTHER'S PLASTER.

R. Diapalma plaster twelve parts  
Olive oil  
White wax, each, one part  
Turpentine two parts  
Melt the first three articles together, with a gentle heat; add the turpentine. *Guibourt.*

BAYNTON'S ADHESIVE PLASTER.

R. Lead plaster one pound  
Resin six drachms  
Melt together. *Beasley.*

LEAD CATAPLASM.

R. Flaxseed meal  
Arrowroot, each, two ounces  
Water eleven fl. ounces  
Lead ointment one ounce  
Mix, and heat to a proper consistence. As a maturing application. *Beral.*

BANYER'S OINTMENT.

R. Litharge two ounces

Burned alum  
 Calomel, each, one ounce and a-half  
 Lard two pounds  
 Venice turpentine half a pound  
 Mix. As an application in porrigo.  
*Cazenave & Schedel.*

## PLUMBI OXIDUM RUBRUM.

## RED LEAD.

## NUREMBERG PLASTER.

R. Red lead eight ounces  
 Olive oil one pound  
 Mix, and heat till it assumes a brown color, and add  
 Resin half an ounce  
 Yellow wax one ounce and a-half  
 Camphor two drachms  
 Mix, and stir well till incorporated.  
*Hessian Ph.*

## PLUMBI SACCHARAS.

## SACCHARATE OF LEAD.

R. Mix one part of sugar with two parts of nitric acid, diluted with ten of water, and apply heat as long as any reaction takes place; neutralize with chalk, filter, and add to the filtered solution acetate of lead as long as any precipitate is found; wash this, and dry it.  
*Beasley.*

## NITRO-SACCHARATE OF LEAD.

R. Saccharate of lead at will  
 Dissolve it in nitric acid, diluted with nineteen parts of water, filter, evaporate, and set aside to crystallize.  
*Hoskins.*

## SOLUTION OF NITRO-SACCHARATE OF LEAD.

R. Nitro-saccharate of lead five grains  
 Saccharic acid twenty-five drops  
 Water five ounces  
 Dissolve. Proposed as a solvent for phosphatic calculi.  
*Hoskins.*

## PLUMBI TANNAS.

## TANNATE OF LEAD.

R. Strong infusion of galls at will  
 Solution of acetate of lead sufficient  
 Add the solution of the acetate, drop by drop, till it no longer causes a precipitate; wash this, and dry it.

## LINIMENT OF TANNATE OF LEAD.

R. Decoction of oak bark eight fl. ounces  
 Solution of acetate of lead sufficient

Add the solution of lead to the decoction by degrees, till it causes no precipitate; wash the precipitate, and add  
 Alcohol, two drachms  
 Recommended in bed sores. *Sundelin.*

## OINTMENT OF TANNATE OF LEAD.

R. Recent tannate of lead twelve parts  
 Lard thirty parts  
 Mix. As an application to bed sores.  
*Tott.*

R. Decoction of oak bark six ounces  
 Solution of acetate  
 of lead one ounce and a-half  
 Mix. Collect the precipitate, and mix whilst moist,  
 Lard one ounce  
 Camphor ten grains  
 As an application to excoriation. *Sundelin.*

## PODOPHYLLUM.

## MAY APPLE.

This is the root or rhizome of the *Podophyllum peltatum*, a native, herbaceous plant, growing in damp situations, having two large peltate, palmate leaves.

*Sex. Syst.* Polyand. monog. *Nat. Syst.* Berberidaceæ.

The dried root is about as thick as a quill, of a blackish brown color externally, and somewhat corrugated; within, it is of a dirty white; it has a faint but unpleasant odor, and a bitterish, somewhat sweetish taste. It is a purgative of the same character as jalap, and may be given in the same combinations. Dose, ten grains to a scruple.

## EXTRACT OF MAY APPLE.

R. May apple root, in coarse powder one pound  
 Alcohol four pints  
 Water sufficient  
 Macerate the May apple root for four days in the alcohol, and then obtain tincture by displacement with the water, then by same means obtain six pints of infusion; distil off the alcohol from tincture, and evaporate the infusion, till each are of the consistence of thin honey. Mix, and evaporate to a due consistence. Dose, five to fifteen grains.  
*U. S. Ph.*

## PODOPHYLLIN.

R. May apple root  
 Alcohol a sufficient quantity  
 Animal charcoal, in coarse powder, six ounces  
 Reduce the may apple root to powder, moisten it with half its weight of alcohol, introduce into a displacer, and pour on al-

cohol until four pints of tincture are obtained. Distil off the alcohol, treat the residual extract with ether to remove fixed oil, boil the residue with water, and dissolve what remains in alcohol, 42° B; treat it with purified animal charcoal, and allow the decolorized solution to evaporate spontaneously. The dry, amorphous mass is podophyllin, and, in cathartic power, six grains are equal to eight of jalap resin.

*J. R. Lewis.*

## POLYGONUM.

### POLYGONUM BISTORTA.

#### BISTORT.

A sub-aquatic plant, with a perennial root and annual, herbaceous stem, growing in moist places in Europe and the northern parts of Asia and America.

*Sex. Syst.* Octand. trigyn. *Nat. Syst.* Polygonaceae.

*Linn. Sp. Pl.* 516. *Steph. and Church.* 1 t. 47.

The root is twisted or bent, of a deep brown color externally, reddish within, inodorous, but of a rough, astringent taste. It is a powerful astringent, but is seldom used in this country. Dose, from twenty to thirty grains.

#### EXTRACT OF BISTORT.

**R.** Powdered bistort                      one pound  
Treat it by the process of displacement, and evaporate the filtered fluid.

*Pharm. Hosp. Mil.*

#### MIXTURE OF BISTORT.

**R.** Powdered bistort                      two drachms  
Syrup of quince                              one ounce  
Rub together, and add  
Tincture of catechu                      two fl. drachms  
Water    four fl. ounces

A spoonful every hour, shaking the bottle each time, in passive hemorrhages, atonic mucous discharges.

*Foy.*

## POTASSIUM.

### POTASSIUM

Is a soft, silver-white metal, readily oxidizable by the action of the air; when thrown on water it takes fire and burns with a rose-colored flame, combining with oxygen, and forming potassa, which is dissolved in the water. It must be kept in liquids, into whose composition no oxygen enters, as naphtha, &c. It is not used in medicine, but its numerous compounds are highly important.

**R.** Fused carbonate of potassa one pound  
Iron filings three quarters of a pound  
Powdered charcoal                      one pound

Mix, and introduce into a gun barrel or iron bottle, placed in a furnace so made that the flame of a very strong fire may surround it, and maintain every part at a uniform heat approaching to whiteness; the gun barrel or bottle is to be connected by an iron tube with a copper receiver partly filled with naphtha and surrounded by ice; the heat is to be gradually raised until the requisite temperature is reached, when the potassium will distil over.

*Curadau.*

## POTASSI BROMIDUM.

### BROMIDE OF POTASSIUM.

**R.** Bromine                                      two ounces  
Iron filings                                      one ounce  
Distilled water                              three pints

To a pint and a half of the water, first add the iron and then the bromine. Set them aside for half an hour, occasionally stirring. Apply a gentle heat, and when the liquid becomes greenish, add seventeen drachms of carbonate of potassa dissolved in the rest of the water. Strain, and wash what remains in two pints of boiling distilled water, and again strain. Evaporate the mixed liquors to crystallization. *Lond. Ph.*

Alterative and resolvent; used both externally and internally in bronchocele and serofula, in doses of two to ten grains, three times a-day.

### SOLUTION OF BROMIDE OF POTASSIUM.

**R.** Bromide of potassium              twelve grains  
Lettuce water                              three ounces  
Syrup of marsh mallows              one ounce  
**Mix.** To be given in spoonful doses, in the twenty-four hours, in serofula. *Foy.*

### OINTMENT OF BROMIDE OF POTASSIUM.

**R.** Bromide of potassium thirty-four grains  
Lard    one ounce  
**Mix.** In frictions on serofulous swellings, and to tinea and tetter. *Magendie.*

### COMPOUND OINTMENT OF BROMIDE OF POTASSIUM.

**R.** Bromide of potas-  
sium    twenty-four grains  
Liquid bromine                      six to twelve drops  
Lard    an ounce  
**Mix.** *Magendie.*

## POTASSII CHLORIDUM.

### CHLORIDE OF POTASSIUM.

**R.** Carbonate of potassa                      at will  
Dissolve in a sufficient quantity of water, filter, and add muriatic acid to saturation,



concentrate the solution by evaporation, and cool slowly, that crystals may form.

*Guibourt.*

Formerly known as the Salt of Sylvius, and used in fever to excite perspiration, and as a diuretic, in doses of from one to two scruples.

#### SOLUTION OF CHLORINATED POTASSA.

R. Carbonate of potassa                    one part  
Water    ten parts  
Dissolve, and pass a current of chlorine through the solution, till it is saturated, and preserve in well-stopped bottles. This is known as *Eau de Javelle*, and is principally used for bleaching, but may be employed as a disinfectant, like Labarraque's liquid.

*Guibourt.*

### POTASSII CYANURETUM.

#### CYANURET OF POTASSIUM.

R. Ferrocyanuret of potas-  
sium    eight ounces  
Distilled water                            six fl. ounces  
Heat the ferrocyanuret moderately, until it becomes nearly white, and is deprived of its water of crystallization. Put the residue into an earthen retort, with the beak loosely stopped, and expose it to a red heat for two hours, or till gas ceases to be evolved. Withdraw it from the fire, close the orifice, and let remain till cold. Break the retort, remove the contents, reduce them to a coarse powder, introduce them in a bottle of the capacity of twelve fl. ounces, and add the distilled water; agitate occasionally for half an hour, throw it on a filter, evaporate the filtered solution rapidly to dryness, and keep in a closely stopped bottle.

*U. S. Ph.*

R. Ferrocyanuret of potas-  
sium, dried,                                    eight ounces  
Pure carbonate of potassa            three ounces  
Charcoal, in fine powder,            one ounce  
Mix well, fuse in an iron vessel until effervescence ceases, and the fusion is tranquil, pour out the fused mass on an iron plate, and cool. Powder when cool, dissolve in alcohol (9.00), and separate and dry the crystals which form on cooling, and preserve them in well-closed bottles.

*Wöhler.*

R. Ferrocyanuret of potas-  
sium, dried,                                    eight parts  
Dried carbonate of potassa            three parts  
Fuse together, when the mass is fluid, stir with a glass rod, until it becomes quite colorless, allow to settle, and pour out on a marble slab.

*Liebig.*

This contains one-eighth of cyanate of potassa.

#### PILLS OF CYANURET OF POTASSIUM.

R. Cyanuret of potassium  
Starch mixed with syrup of  
gum, each,                                    half a grain  
Mix, and make a pill. Dose, one morn-  
ing and evening. In spasmodic affections  
of the chest.

*Foy.*

#### SOLUTION OF CYANURET OF POTASSIUM.

R. Cyanuret of potassium            one drachm  
Distilled water                            one ounce  
Dissolve.

*Magendie.*

R. Cyanuret of potas-  
sium    twenty-two grains  
Diluted alcohol                            nine fl. drachms  
Dissolve. Equal to hydrocyanic acid con-  
taining one grain to a fl. drachm.

*Laming.*

#### MIXTURE OF CYANURET OF POTASSIUM.

R. Solution of cyanuret of  
potassium                                    one fl. drachm  
Distilled water                            one pint  
Sugar    one ounce and a-half

Mix. A tablespoonful, night and morn-  
ing, in pectoral affections.

*Magendie.*

R. Cyanuret of potassium            four grains  
Distilled water                            two ounces  
Syrup of sugar                            three drachms

Mix. A teaspoonful, every three or four  
hours, in asthma and chronic catarrh.

*Cadet.*

R. Tincture of castor

Musk

Nitrate of potassa, each,            four grains

Cyanuret of potassium            two grains

Linden-flower water            eight fl. ounces

Mix. To be taken in divided doses, in  
twenty-four hours, in chorea.

*Fouquier.*

R. Lettuce water                            two ounces  
Cyanuret of potassium            half a grain to  
a grain and a-half

Syrup of marsh mallows            one ounce

Mix. A tablespoonful, every two hours.

*Magendie.*

#### SYRUP OF CYANURET OF POTASSIUM.

R. Solution of cyanuret of  
potassium                                    one drachm  
Simple syrup                                    one pound  
Mix.

*Magendie.*

#### LOTION OF CYANURET OF POTASSIUM.

R. Cyanuret of potas-  
sium    one to four grains  
Distilled water                            one ounce  
Mix.

*Foy.*

R. Cyanuret of potassium            eight grains  
Distilled water                            one ounce

Mix. To be applied by means of com-

presses, in cases of neuralgia, articular rheumatism, &c.

*Foy.*

R. Cyanuret of potassium ten grains  
Emulsion of bitter almonds six ounces  
Mix. As an application to chronic eruptions, attended with much itching.

*Cazenave.*

ointment of cyanuret of potassium.

R. Cyanuret of potassium one to four grains  
Lard one ounce  
Mix. *Lombard.*

R. Cyanuret of potassium twelve grains  
Oil of almonds two drachms  
Cold cream two ounces  
Mix. To be rubbed on the skin to relieve neuralgic pains. *Cazenave.*

POTASSII IODIDUM.

IODIDE OF POTASSIUM.

R. Iodine six ounces  
Iron filings three ounces  
Carbonate of potassa sufficient  
Distilled water four pints

Mix the iodine with three pints of the water, and add the iron filings, stirring frequently for half an hour. Apply a gentle heat, and when the mixture assumes a greenish color, add gradually the carbonate of potassa, dissolved in half a pint of the water, until it ceases to produce a precipitate. Continue the heat for half an hour, and filter. Wash the residuum with half a pint of the distilled water, boiling hot and filter. Mix the filtered liquors, and evaporate, so that crystals may form. Pour off the liquid, and dry the crystals on bibulous paper. *U. S. Ph.*

R. Iodine sixteen ounces  
Distilled water eight pints  
Sulphuret of barium sufficient  
Sulphate of potassa twelve ounces

Mix the iodine with the water, and gradually add the powdered sulphuret, until the solution becomes colorless, constantly stirring. Heat to the boiling point, add the sulphate of potassa, boil for a quarter of an hour, and filter. Evaporate to crystallization. *Mohr.*

R. Caustic potash four ounces  
Iodine sufficient  
Charcoal, in powder, one ounce  
Water sufficient

Dissolve the potash in a pint of water, add the iodine in powder gradually, as long as the solution becomes colorless by stirring,

then add the charcoal, and evaporate to dryness in an iron pot. Cover this and heat to dull redness for half an hour, remove the mass from the pot, treat it with the smallest quantity of water necessary to dissolve the salt, filter, evaporate, and crystallize. The mother liquid yields more crystals by evaporation.

*Turner—modified.*

R. Iodine one hundred grains  
Carbonate of potassa seventy-five grains  
Water two drachms  
Iron filings thirty grains  
Mix, and heat slightly, then to redness; the resulting red powder is to be treated with water; filtered, and evaporated to dryness. *Pypues.*

Dose, two to fifteen grains, but has been given in still larger quantities.

PILLS OF IODIDE OF POTASSIUM.

R. Iodide of potassium five drachms  
Distilled water six drachms  
Crumb of bread sufficient  
Mix, and make three hundred pills. In goitre, leucorrhœa, &c. *Pierquin.*

R. Iodide of potassium fifteen grains  
Burnt sponge  
Extract of bittersweet, each, five drachms  
Distilled water sufficient  
Mix, and make one hundred and eighty pills. Six, twice a-day, in scrofula and goitre. *Voght.*

LOZENGES OF IODIDE OF POTASSIUM.

R. Iodide of potassium one drachm  
Sugar three ounces  
Mucilage of tragacanth sufficient  
Mix, and make lozenges of twelve grains. One to six, or more, a-day. *Giordano.*

R. Iodide of potassium seventy-five grains  
Powdered coffee half a drachm  
sugar four ounces  
Mucilage of gum, made with a strong infusion of coffee sufficient  
Mix, and make three hundred lozenges. Each contains a quarter of a grain of iodide. In goitre, scrofula, &c. *Pierquin.*

SOLUTION OF IODIDE OF POTASSIUM.

R. Iodide of potassium thirty-six grains  
Distilled water one ounce  
Dissolve. Dose, ten minims. *Magendie.*  
R. Iodide of potassium one drachm  
Distilled water one ounce  
Dissolve. Fifteen drops, gradually increased; three times a-day, in ovarian dropsy. *Elliotson.*

R. Iodide of potassium four ounces  
 Distilled water eight fl. ounces  
 Dissolve. Ten minims contain five grains  
 of iodide. *Guy's Hosp.*

#### INJECTION OF IODIDE OF POTASSIUM.

R. Iodide of potassium one to three grains  
 Distilled water one pint  
 Dissolve. To stimulate fistulous sinuses  
 in scrofulous patients. *Foy.*

#### MIXTURE OF IODIDE OF POTASSIUM.

R. Iodide of potassium one drachm  
 Lettuce water eight ounces  
 Mint water two drachms  
 Syrup of marsh mallow one ounce  
 Mix. *Foy.*

R. Iodide of potassium four drachms  
 Lettuce water eight ounces  
 Orange-flower water two drachms  
 Syrup of marsh mallow one ounce  
 Mix. *Foy.*

R. Iodide of potassium four drachms  
 Lettuce water eight ounces  
 Orange-flower water one drachm  
 Tincture of fox-  
 glove one to two drachms  
 Syrup of marsh mal-  
 low one ounce and a-half  
 Mix. *Magendie.*

In hypertrophy of the heart. A teaspoonful,  
 morning and evening.

R. Iodide of potassium two drachms  
 Distilled water sixteen ounces  
 Syrup two ounces  
 Mix. Two or three spoonfuls a-day.  
*Cazenave.*

R. Quassia  
 Gentian, each, one drachm  
 Boiling water sixteen fl. ounces  
 Macerate for an hour, strain, and add

Iodide of potassium thirty-six grains  
 Carbonate of potassa two drachms  
 Mix. A tablespoonful, three times a-day.  
*Cumming.*

R. Solution of iodide of  
 potassium fifteen drops  
 Medicinal hydrocyanic  
 acid ten to twelve drops  
 Lettuce water four ounces  
 Syrup of marsh mallow one ounce

Mix. A teaspoonful every hour, in phthisis.  
*Magendie.*

R. Iodide of potassium two grains  
 Sulphate of magnesia half an ounce  
 Tartar emetic half a grain  
 Distilled water six ounces

Mix. A teaspoonful, three or four times  
 a-day, in scrofula. *Radius.*

#### SYRUP OF IODIDE OF POTASSIUM.

R. Iodide of potassium one drachm  
 Simple syrup one pound  
 Dissolve. *Cadet.*

R. Iodide of potassium twenty grains  
 Peppermint water two drachms  
 Simple syrup ten ounces  
 Mix. *Giordano.*

R. Iodide of potassium two drachms  
 Simple syrup six ounces  
 Mix. *Cazenave.*

#### IODIDE OF POTASSIUM AND SARSAPA- RILLA.

R. Iodide of potassium one drachm  
 Decoction of sarsaparilla two pints  
 Syrup of orange peel two ounces

Mix. To be taken in glassfuls, during the  
 day. *Magendie.*

#### OINTMENT OF IODIDE OF POTASSIUM.

R. Iodide of potassium half a drachm  
 Lard one ounce and a-half  
 Mix. *Magendie.*

The strength of this ointment may vary much,  
 from containing a twenty-fourth of the salt, to an  
 eighth or more, according as it may be required.  
 In goitre, scrofulous swellings, &c.

R. Iodide of potassium half a drachm  
 Solution of potassa two drops  
 Lard one ounce and a-half  
 Wax three drachms  
 Mix. *Coindet.*

R. Spermaceti half an ounce  
 Olive oil six drachms  
 White wax two drachms  
 Iodide of potassium four scruples  
 Oil of lemons

roses, each, three drops  
 Mix. This ointment does not change  
 color by keeping. *Kallhofert.*

R. Iodide of potassium one drachm  
 Magnesia six grains  
 Rub together with a few drops of water,  
 and add

Rose water ointment one ounce  
 Mix well *Hamb. Ph.*

R. Iodide of potassium  
 Carbonate of soda, each,  
 half a drachm  
 Rose water ointment six drachms  
 Mix well. In chronic enlargement of the  
 testicle. *Walther.*

#### OINTMENT OF IODIDE OF POTASSIUM AND OPIUM.

R. Iodide of potas-  
 sium one drachm and a-half  
 Lard one ounce and a-half



Laudanum one fl. drachm  
 Mix. *A. T. Thomson.*  
 R. Iodide of potassium half a drachm  
 Extract of opium ten grains  
 Simple cerate one ounce  
 Mix. As a dressing to cancerous ulcers.

#### OINTMENT OF IODIDE OF POTASSIUM AND MERCURY.

R. Iodide of potassium twelve to twenty grains  
 Mercurial ointment half an ounce  
 Mix. In various diseases of the skin.

*Blarius.*

R. Ointment of iodide of potassium  
 Mercurial ointment  
 Oil of henbane, each, two ounces  
 juniper one drachm  
 Mix. *Schonlein.*

When iodide of potassium and mercurial ointment are mixed, the globules soon appear, but if the iodide be artificially dried, previously, a uniform ointment is produced.

R. Iodide of potassium three parts  
 Iodide of mercury two parts  
 Camphor two parts  
 Galen's cerate thirty-two parts

Mix. Used as friction in acute hydrocephalus, in doses of a half a drachm to a drachm. *Golfin.*

#### OINTMENT OF IODIDE OF POTASSIUM AND MORPHIA.

R. Iodide of potassium fifteen grains  
 Muriate of morphia half a drachm  
 Lard ten ounces  
 Mix. In painful tumors of the breasts, to be applied twice a-day. *Chomel.*

#### LINIMENT OF IODIDE OF POTASSIUM.

R. Iodide of potassium one ounce  
 Alcohol four ounces  
 Dissolve.

R. Animal soap one ounce and a-half  
 Alcohol four fl. ounces  
 Dissolve. Add the two solutions together, aromatize with a few drops of oil of lavender, and pour into wide-mouthed bottles.

*Boudet.*

R. White soap seven drachms  
 Diluted alcohol two fl. ounces  
 Dissolve by a gentle heat, and whilst warm, add  
 Iodide of potassium four drachms dissolved in  
 Diluted alcohol four fl. drachms

*Beasley.*

R. Iodide of potassium four drachms  
 Diluted alcohol two ounces  
 Dissolve.

R. Curd soap six drachms  
 Diluted alcohol two ounces  
 Dissolve by a gentle heat, and add the solution of iodide of potassium, and aromatize. *Foy.*

These are used as liniments in goitre.

R. White soap ten drachms  
 Oil of almonds ten drachms  
 Iodide of potassium one drachm  
 Water one drachm

Dissolve the iodide in the water, and add it to the soap and oil, melted together.

*Guibourt.*

#### SOAP OF IODIDE OF POTASSIUM.

R. Camphor one drachm  
 Tincture of benzoin three drachms  
 Add to the solution, triturating well,  
 Iodide of potassium two drachms  
 Goulard's extract four drachms

Add to the mixture

Oil of almonds thirty-four drachms  
 Solution of potassa two ounces  
 Essence of lavender half a drachm

Mix well. As an application to chilblains. *Cadet.*

#### POTASSII BINIODIDUM.

##### BINIODIDE OF POTASSIUM.

R. Iodide of potassium twenty parts  
 Iodine six parts  
 Mix, and triturate together till the mass is homogenous, and of a dark brown color. *Giordano.*

To have a perfectly saturated salt, iodine in excess is to be added to a solution of the iodide until no more is dissolved. In the following preparations, there is a mixture of iodide and biniodide.

##### IODURETTED WATER.

R. Iodide of potassium six grains  
 Iodine one grain  
 Water two pints  
 Dissolve. To be used instead of common water at meals. *Magendie.*

##### IODURETTED WATER, (LUGOL'S.)

R. Iodide of potassium one grain and a-half  
 Iodine three-quarters of a grain  
 Distilled water eight ounces  
 Dissolve.

R. Iodide of potassium two grains  
 Iodine one grain  
 Distilled water eight ounces  
 Dissolve.

R. Iodide of potassium two grains and a-half  
 Iodine one grain and a quarter

Distilled water eight ounces  
 Dissolve. The first is for young children, to be taken in divided doses, in three days; the second for those of more advanced age, in two days; the third for adults, in one day. *Guibourt.*

R. Iodide of potassium six grains  
 Iodine three grains  
 Water sixteen ounces

Dissolve. In poisoning by the vegetable alkaloids, in wineglassfuls, after the stomach has been emptied. *Bouchardat.*

R. Iodide of potassium ten grains  
 Iodine five grains  
 Distilled water twenty fl. ounces

Dissolve. Dose, two to six fl. drachms. *Lond. Ph.*

#### COMPOUND SOLUTION OF IODIDE OF POTASSIUM.

R. Iodide of potassium one ounce and a-half  
 Iodine six drachms  
 Distilled water one pint

Dissolve. Dose, six drops, three times a-day, in sweetened water. *U. S. Ph.*

#### IODURETTED BATH.

R. Iodide of potassium four scruples  
 Iodine two scruples  
 Water ten ounces

Dissolve. To be added to a sufficient quantity of water. For children.

R. Iodide of potassium six drachms  
 Iodine three drachms  
 Water twenty ounces

Dissolve. To be added to a sufficient quantity of water. For adults. *Foy.*

#### COLLYRIUM OF BINIODIDE OF POTASSIUM.

R. Iodide of potassium twenty-four grains  
 Iodine one to two grains  
 Rose water six ounces

Dissolve. To be used four times a-day, in serofulous ophthalmia. *Magendie.*

#### IODURETTED INJECTION.

R. Iodide of potassium four grains  
 Iodine two grains  
 Distilled water sixteen ounces

Dissolve.

R. Iodide of potassium eight grains  
 Iodine four grains  
 Distilled water sixteen ounces

Dissolve. To stimulate fistulous sinuses. *Guibourt.*

#### SYRUP OF BINIODIDE OF POTASSIUM.

R. Biniodide of potassium twenty grains  
 Peppermint water two drachms

Simple syrup two ounces  
 Dissolve the biniodide in the peppermint water, and add the solution to the syrup. *Giordano.*

#### COMPOUND LOTION OF IODIDE OF POTASSIUM.

R. Iodide of potassium two to four grains  
 Iodine one to two grains  
 Distilled water eight fl. ounces

Dissolve. As an application in serofulous ophthalmia, fistulas, &c. *Lugol.*

R. Iodide of potassium two ounces  
 Iodine one ounce  
 Distilled water three ounces

Dissolve. *Guibourt.*

R. Iodide of potassium one ounce  
 Iodine half an ounce  
 Distilled water six ounces

Dissolve. *Soubiran.*

These two preparations are used to touch the eyelids in serofulous ophthalmia.

#### CAUSTIC SOLUTION OF BINIODIDE OF POTASSIUM.

R. Iodide of potassium one ounce  
 Iodine, each, one ounce  
 Distilled water two ounces

Mix. *Guibourt.*

R. Iodide of potassium  
 Iodine  
 Distilled water, each, one ounce

Mix. *Cadet.*

These are used to touch the surfaces of serofulous ulcers.

#### COMPOUND TINCTURE OF IODIDE OF POTASSIUM.

R. Iodide of potassium one ounce  
 Iodine half an ounce  
 Alcohol one pint

Dissolve. *U. S. Ph.*

R. Iodide of potassium two ounces  
 Iodine one ounce  
 Alcohol two pints (imp.)

Dissolve. *Lond. Ph.*

Dose, from fifteen to thirty drops.

#### MIXTURE OF BINIODIDE OF POTASSIUM.

R. Iodide of potassium four drachms  
 Iodine two grains

Orange-flower water  
 Mint water, each, three ounces

Mix. A dessertspoonful, three times a-day, in epilepsy. *Magendie.*

R. Iodide of potassium half a drachm  
 Iodine half a grain

Syrup of poppies half a fl. ounce  
 Distilled water half a pint

Mix. Two tablespoonfuls, three times a-day, in syphilis combined with serofula.

*Tyrrell.*

OINTMENT OF BINIODIDE OF POTASSIUM.

R. Iodide of potassium one drachm  
Iodine half a drachm  
Alcohol one fl. drachm  
Lard two ounces

Rub the iodide and iodine with the alcohol, and then with the lard, until they are thoroughly mixed. *U. S. Ph.*

R. Iodide of potassium twenty-four grains  
Iodine twelve grains  
Lard two ounces

Mix. *Lugol.*

R. Iodide of potassium two drachms  
Iodine eighteen grains  
Lard two ounces

Mix. *Lugol.*

R. Iodide of potassium two drachms and a-half  
Iodine twenty-one grains  
Lard two ounces

Mix. *Lugol.*

R. Iodide of potassium two drachms and a-half  
Iodine twenty-four grains  
Lard two ounces

Mix. In serofulous ulcers, &c. *Lugol.*

OINTMENT OF BINIODIDE OF POTASSIUM AND OPIUM.

R. Iodide of potassium one drachm  
Iodine fifteen grains  
Laudanum of Rousseau two drachms  
Lard two ounces

Mix. As an application to serofulous ulcers. *Foy.*

PLASTER OF BINIODIDE OF POTASSIUM.

R. Iodide of potassium  
Iodine, each, ten grains to one scruple  
Mercurial or soap plaster two ounces

Mix. As an application to syphilitic and gouty swellings. *Ebers.*

POTASSII HYDRARGYRO-  
IODIDUM.

HYDRARGYRO-IODIDE OF POTASSIUM.

R. Iodide of potassium eight grains  
Dissolved in ten or fifteen minims of water

Red iodide of mercury eleven grains  
Mix. This contains twenty-grains of the hydrargyro-iodide, and is not decomposed by water. *Channing.*

R. Bichloride of mercury one equivalent  
Dissolve in a solution of

Iodide of potassium four equivalents  
Evaporate to dryness, treat with alcohol, and evaporate to crystallization.

*Amb. Smith.*

Dose, one-twelfth of a grain, three times a-day; in many cases, a much smaller quantity is required to be given.

SOLUTION OF HYDRARGYRO-IODIDE OF  
POTASSIUM.

R. Iodide of potassium three grains and a-half  
Red iodide of mercury four grains and a-half  
Distilled water one fl. ounce

Dissolve first, the iodide of potassium, and then the mercurial salt in the water. The compound salt amounts to about eight grains. The dose is from two to five drops, three times a-day, much diluted, in dyspepsia, enlargement of the spleen, dropsy, &c. *Channing.*

R. Iodide of potassium  
Red iodide of mercury, each, eight grains  
Distilled water eight ounces

Mix. Dose, two fl. drachms and upwards, in the twenty-four hours. *Puche.*

R. Hydrargyro-iodide of potassium twelve grains  
Water sixteen fl. ounces  
*Limonium Lamothe.*

TINCTURE OF HYDRARGYRO-IODIDE OF  
POTASSIUM.

R. Hydrargyro-iodide of potassium one grain  
Diluted alcohol one fl. ounce  
Dissolve. Ten drops, three times a-day.

*Channing.*

PILLS OF HYDRARGYRO-IODIDE OF  
POTASSIUM.

R. Red iodide of mercury  
Iodide of potassium, each, eight grains  
Sugar of milk sixty-four grains  
Mucilage of gum Arabic sufficient

Mix, and make thirty-two pills.

R. Iodide of potassium  
Red iodide of mercury, each, six grains  
Opium twelve grains  
Mix, and make twenty-four pills. *Mialthe.*

OINTMENT OF HYDRARGYRO-IODIDE OF  
POTASSIUM.

R. Red iodide of mercury seven grains



Iodide of potassium two scruples  
Lard one ounce  
Mix. To be applied to tumors, two or three times a-day. *Hildreth.*

R. Hydrargyrio-iodide of potassium one scruple  
Lard one ounce  
Mix. *Lamothe.*

## POTASSII SULPHO-CYANURETUM.

### SULPHO-CYANURET OF POTASSIUM.

R. Ferro-cyanuret of potassium three parts  
Sulphur one part  
Pack in a crucible, heat to redness, for an hour, treat with alcohol, and evaporate to crystallization. *Van Mons.*

R. Prussian blue three parts  
Sulphuret of potassa one part  
Put the mixture into a covered crucible, and heat to a dull red for half an hour, treat with alcohol, filter the solution, evaporate, and crystallize. *Van Mons.*

R. Digest an aqueous solution of cyanuret of potassium with sulphur, of which it will take up one-third. Filter, and evaporate. *Beasley.*

## POTASSII SULPHURETUM.

### SULPHURET OF POTASSIUM.

R. Sulphur one ounce  
Carbonate of potassa two ounces  
Rub the carbonate of potassa, previously dried with the sulphur, melt the mixture in a covered crucible over the fire; then pour it out, and, when cold, put it in a bottle, which is to be well stopped. *U. S. Ph.*

A stimulant, expectorant, and diaphoretic, in small doses, poisonous in large; used externally in many cutaneous diseases. Dose, from two to ten grains, several times a-day.

### HYPOSULPHITED SULPHURET OF POTASSIUM.

R. Sublimed sulphur one part  
Solution of potassa three parts  
Mix, and heat on a sand-bath, until it marks 39° B. *Guibourt.*

It consists of three parts of sulphuret and one of hyposulphite.

### FERRO-SULPHURET OF POTASSIUM.

R. Carbonate of potassa  
Sulphur, each, one ounce  
Black oxide of iron two drachms  
Mix, and melt in a crucible, pour out on

a slab of marble, break in pieces, and keep in a well-closed bottle. Dose, three to four grains. *Ferrara Ph.*

### SULPHURET OF POTASSIUM AND CREMOR TARTAR.

R. Sulphuret of potassium four scruples  
Cremor tartar four drachms  
Mix, and divide into twenty-four powders. Dose, one every four hours, in a glass of sweetened water. Said to be efficacious in mercurial salivation. *Bories.*

### BOLUS OF SULPHURET OF POTASSIUM.

R. Sulphuret of potassium three grains  
Conserve of elder berries sufficient  
Mix. Make six boluses; one every three hours. In mercurial salivation. *Brera.*

R. Sulphuret of potassium six grains  
Black oxide of iron three grains  
Extract of quassia ten grains  
Burnt sponge sufficient  
Mix, and make a bolus. One, morning and evening, in goitre and glandular affections. *Phæbus.*

### PILLS OF SULPHURET OF POTASSIUM.

R. Sulphuret of potassium one drachm  
Extract of liquorice sufficient  
Mix, and make thirty pills. Two to five, several times a-day.

### COMPOUND PILLS OF SULPHURET OF POTASSIUM.

R. Sulphuret of potassium  
Gum ammoniac  
Extract of dandelion, each, one drachm  
Soap  
Rhubarb, each, half a drachm  
Opium three grains  
Mix, and make pills of two grains. *Radius.*

### PILLS OF SULPHURET OF POTASSIUM AND CHARCOAL.

R. Sulphuret of potassium one drachm  
Extract of blessed thistle  
Powdered charcoal, each, two grains  
Mix, and make pills of two grains. Fifteen to twenty, four times a-day, in phthisis. *Augustin.*

### ELECTUARY OF SULPHURET OF POTASSIUM.

R. Butter of cocoa two drachms  
Oil of almonds half an ounce  
Melt together, and add, triturating well  
Sulphuret of potassium ten grains  
Sugar three drachms  
As an alterative for children, in teaspoonful doses. *Phæbus.*

SYRUP OF SULPHURET OF POTASSIUM.

R. Sulphuret of potassium eight grains  
 Distilled water sixteen grains  
 Dissolve, add to it  
 Simple syrup one ounce  
*Par. Cod.*

A teaspoonful, for croup in children.

COMPOUND SYRUP OF SULPHURET OF POTASSIUM.

R. Sulphuret of potassium one ounce  
 Fennel water sixteen ounces  
 Simple syrup thirty-eight ounces  
 Mix. Once much celebrated as Willis' beehie syrup, in croup, &c. *Giordano.*

SYRUP OF HYPOSULPHITED SULPHURET OF POTASSIUM.

R. Hyposulphited sulphuret of potassium sixteen grains  
 Simple syrup one ounce  
 Mix. *Guibourt.*

SOLUTION OF SULPHURET OF POTASSIUM.

R. Sulphuret of potassium one part  
 Water sufficient  
 to make a solution of 30° B. *Soubciran.*

WATER OF SULPHURET OF POTASSIUM.

R. Washed sulphur one part  
 Water of caustic potassa eleven parts  
 Boil for ten minutes, and filter. Keep in well-stopped bottles. *Dub. Ph.*

This is not analogous to a solution of sulphuret of potassium, as it contains much hyposulphite of potassa. Dose, ten minims to one fl. drachm, three times a-day.

TINCTURE OF SULPHURET OF POTASSIUM.

R. Sulphuret of potassium four ounces  
 Diluted alcohol sixteen ounces  
 Digest for twenty-four hours, and strain. *Quincy.*

R. Carbonate of potassa one ounce  
 Sulphur two ounces  
 Melt together, and digest with  
 Alcohol one pound  
 Filter. *Saxon. Ph.*

Recommended in itch, in doses of sixty drops.

LOTION OF SULPHURET OF POTASSIUM.

R. Sulphuret of potassium one ounce  
 Water half a pint  
 Dissolve. As a wash in herpetic and other cutaneous eruptions. *Ellis.*  
 R. Sulphuret of potassium

one to two parts  
 Water sixteen parts  
 Dissolve. *Foy.*

COMPOUND LOTION OF SULPHURET OF POTASSIUM.

R. Sulphuret of potassium half an ounce

Soap one ounce  
 Aleohol four fl. ounces  
 Tincture of myrrh half a fl. ounce  
 Lime water one pint  
 Mix. As an application in tinea capitis. *Ellis.*

R. Sulphuret of potassium one to two ounces  
 Water one pint  
 Dissolve.

R. Muriatic acid one fl. ounce to two fl. ounces  
 Distilled water two pints  
 Mix an ounce of each solution with four ounces of warm water. As an application in psora. *Alibert.*

R. Sulphuret of potassium three drachms  
 Soap one drachm and a-half  
 Lime water seven and a-half fl. ounces  
 Diluted alcohol two fl. ounces  
 Mix. *Burns.*

Known as Barlow's lotion, and used in various cutaneous diseases.

R. Sulphuret of potassium two drachms  
 Soap two drachms and a-half  
 Lime water seven fl. ounces  
 Alcohol one fl. drachm  
 Mix. *Biett.*

As a lotion in porrigo.

R. Sulphuret of potassium four ounces  
 Water one pint and a-half  
 Sulphuric acid half an ounce  
 Mix. As a lotion in itch, to be used morning and evening. *Dupuytren.*

SULPHURET OF POTASSIUM BATH.

R. Sulphuret of potassium four ounces  
 Water twelve ounces  
 Dissolve, and mix with the water of a bath. *Beral.*

R. Sulphuret of potassium one ounce  
 Common salt two ounces  
 Carbonate of soda four drachms  
 Leaves of sage one to two handfuls  
 Water six quarts  
 Boil for twenty-four hours. In fomentations, douches, &c., in spina ventosa and serofula. *St. Marie.*

R. Sulphuret of potassium four ounces  
 Water two hundred pints  
 Mix, and add  
 Glue two pounds  
 Dissolved in ten pints of boiling water. *Foy.*

INJECTION OF SULPHURET OF POTASSIUM.

R. Sulphuret of potassium one drachm

Distilled water eight to twelve ounces  
Dissolve. In gonorrhœa. *Wedekind.*

### MIXTURE OF SULPHURET OF POTASSIUM.

R. Sulphuret of potassium  
one drachm and a-half

Bicarbonate of potassa ten grains

Oil of peppermint one to two drops

Syrup of orange peel two ounces

Mucilage one ounce

Mix. A teaspoonful, every two hours, as an alterative in serofula. *Lockstaedt.*

R. Sulphuret of potassium one scruple

Carbonate of potassa ten grains

Peppermint water two ounces

Syrup of saffron one ounce

Mix. A spoonful, every two hours, in cutaneous diseases. *Phœbus.*

R. Sulphuret of potassium one scruple

Water one ounce

Syrup of cinnamon two drachms

Mix. To be taken in three doses, in mercurial disease. *Dzondi.*

R. Sulphuret of potassium one scruple

Kermes mineral ten grains

Syrup of senega two ounces

Anisated ammonia one scruple

Mix. A spoonful, every hour in croup. *Hagen.*

R. Sulphuret of potassium

Sugar, each, one drachm

Water one pint

Mix. Has been advised as an antidote in poisoning by arsenic. *Augustin.*

### OINTMENT OF SULPHURET OF POTASSIUM.

R. Sulphuret of potassium

Carbonate of soda, each, three drachms

Lard three ounces

Mix. As an application in tinea capitis. *Alibert.*

R. Soap one pound

Water one ounce

Soften by means of a water-bath, and add

Sulphuret of potassium three ounces

Oil of pinks two pounds

Mix well. *Jadelot.*

R. Sulphuret of potassium six ounces

Water two ounces

Dissolve, and add

Soap two pounds

Oil of pinks four pounds

thyme two drachms

Mix. *Giordano.*

R. Powdered soap two ounces

Sulphuret of potassium

Water, each, one ounce

Mix well, and add, gradually,  
Olive oil five ounces  
This liniment alters rapidly when exposed to the air. *Beral.*

### COMPOUND PLASTER OF SULPHURET OF POTASSIUM.

R. Sulphuret of potassium

Powdered hemlock, each, two drachms

Camphor

Turpentine, each, four drachms

Soap half a drachm

Yellow wax one ounce

Simple plaster four ounces

Mix well. As a dressing to tumefied lymphatic glands. *Boriss.*

### SOAP OF SULPHURET OF POTASSIUM.

R. Sulphuret of potassium one part

Boiling water two parts

Dissolve, and add

Yellow wax one part

Evaporate, stirring continually. *Bavar. Ph.*

## POTASSA.

### CAUSTIC POTASSA.

R. Solution of potassa one gallon

Evaporate quickly, in a clean iron vessel, over the fire, till ebullition ceases and the potassa melts. Pour into moulds, and keep in well-stopped bottles. *U. S. Ph.*

A powerful escharotic, used to form issues and in opening abscesses.

### SOLUTION OF CAUSTIC POTASSA.

R. Caustic potassa one drachm and a-half

Distilled water two fl. ounces

Dissolve. As a rubefacient in tetanus, to be applied to the spine. *Hartshorne.*

### POTASSA WITH LIME.

R. Caustic potassa

Lime, each, one ounce

Rub them together, and keep in a well-stopped bottle. *Lond. Ph.*

Used as the above, but is slower in producing an effect. It is to be made into a paste with a little alcohol.

### SOLUTION OF POTASSA.

R. Carbonate of potassa one pound

Lime half a pound

Boiling distilled water one gallon

Dissolve the carbonate of potassa in half a gallon of the water, pour a little of the water on the lime, and, when slaked, add the remainder. Mix the hot liquors, and boil for ten minutes, stirring continually, set the mixture aside in a covered vessel,





Simple syrup sufficient  
 Mix. Dose, twelve to twenty-four grains,  
 twice a-day, in scrofula. *Baumes.*

#### LIQUID ACETATE OF POTASSA.

R. Acetate of potassa one part  
 Distilled water two parts  
 Dissolve. *Amster. Ph.*

R. Acetate of potassa at will  
 Expose to the action of the air, till it de-  
 liquescs, and filter. *Pideret.*

Dose, forty to eighty drops, in an appropriate  
 vehicle, as a diuretic.

#### MIXTURE WITH LIQUID ACETATE OF POTASSA.

R. Liquid acetate of potassa two ounces  
 Extract of Peruvian bark two drachms  
 cascarilla one drachm

Elixir proprietatis one ounce  
 Mix. In intermittent fevers, complicated  
 with obstruction and dropsy; in doses of  
 thirty drops, every two hours, during the  
 apyrexia. *Bories.*

R. Liquid acetate of potassa four ounces  
 Extract of centaury two drachms  
 Sulphuric ether twenty drops  
 Syrup of kermes two ounces

Mix. In dropsy and obstructions. In  
 doses of thirty drops. *Saunders.*

#### TINCTURE OF ACETATE OF POTASSA.

R. Acetate of potassa two ounces  
 Alcohol four ounces  
 Digest for some days, and filter. Dose,  
 thirty to sixty drops. *Bruns. Ph.*

#### MIXTURE OF ACETATE OF POTASSA.

R. Acetate of potassa  
 Extract of dandelion  
 hemlock, each, half an ounce

Fennel water six ounces  
 Syrup of marsh mallow one ounce  
 Mix. Two teaspoonfuls, every four hours,  
 in jaundice. *Quarin.*

R. Carbonate of potassa fifteen grains  
 Distilled vinegar sufficient  
 to dissolve; add to the solution

Water half an ounce  
 Mint water one ounce  
 Pimento water  
 Vinegar of squill, each, one drachm  
 Simple syrup two drachms

Mix. Dose, half a drachm to a drachm,  
 every six hours, in dropsy. *Milman.*

R. Arnica root one drachm  
 Boiling water sufficient  
 to obtain four ounces of infusion; add  
 Carbonate of potassa, saturated  
 with vinegar of squill, half a drachm

Syrup of orange flowers half an ounce  
 Mix. A spoonful every two hours, in  
 dropsy. *Wendt.*

R. Acetate of potassa  
 Oxymer of squill, each, one drachm  
 Linden water four drachms  
 Wine of opium fifteen drops  
 Syrup of marsh mallow one ounce  
 Mix. In spoonful doses, as a diuretic  
 and sedative. *Pierquin.*

#### POTASSÆ ARSENITIS LIQUOR.

##### ARSENICAL, OR FOWLER'S SOLUTION.

R. Arsenious acid in small fragments  
 Pure carbonate of  
 potassa, each, sixty-four grains  
 Distilled water sufficient  
 Compound spirit of  
 lavender half a fl. ounce

Boil the arsenious acid and carbonate of  
 potassa with twelve fl. ounces of the water,  
 in a glass vessel, till the acid is entirely  
 dissolved. To the solution, when cold,  
 add the spirit of lavender, and afterwards,  
 sufficient distilled water to make it fill  
 exactly the measure of a pint. *U. S. Ph.*

Used in the same cases as arsenious acid,  
 especially in intermittent fever. Each fl. drachm  
 contains half a grain of arsenious acid. Dose,  
 about ten drops, two or three times a-day.

#### POTASSÆ ARSENIAS.

##### ARSENIATE OF POTASSA.

R. White arsenic  
 Nitre, each, one ounce  
 Pulverize separately, mix, and introduce  
 into an earthenware retort; heat to red-  
 ness, as long as nitrous fumes are evolved,  
 let cool, dissolve the residuum in four pints  
 of boiling distilled water, evaporate, and  
 crystallize. *Guibourt.*

Dose, one sixteenth to one-eighth of a grain.

##### MIXTURE OF ARSENIATE OF POTASSA.

R. Arseniate of potassa one fifth of a grain  
 Mint water three ounces  
 Simple syrup half an ounce  
 Mix. In spoonful doses, in the apyrexia  
 of intermittents. *Foy.*

#### POTASSÆ BORAS.

##### BORATE OF POTASSA.

R. Boracic acid six parts

Bicarbonate of potassa five parts  
Mix, and heat to redness in a crucible,  
dissolve the residuum in water, filter, and  
evaporate to dryness. *Beasley.*

## POTASSÆ BOROTARTRAS.

### BOROTARTRATE OF POTASSA.

R. Powdered bitartrate of  
potassa four ounces  
Boracic acid one ounce  
Water three pints

Mix, and put in a silver basin, and boil  
till most of the water is evaporated, and  
continue the evaporation by a gentle heat,  
constantly stirring. When the matter has  
become thick, take it up in portions, flat-  
ten them, and dry in a stove, reduce them  
to powder, and keep in well-closed bottles.

*Par. Cod.*

R. Borax two hundred and fifty parts  
Bitartrate of potassa seventy-five parts  
Dissolve in boiling water, evaporate until  
a portion dropped on a cold slab solidifies.  
Powder in a warm mortar, and keep in  
well-stopped bottles. *Kaepeler.*

R. Bitartrate of potassa twelve ounces  
Borate of soda six ounces  
Tartaric acid three drachms  
Dissolve in water, clarify with white of  
egg, and proceed as directed by the Paris  
Codex. *Cumbranc.*

This is known as soluble cream of tartar. It  
is purgative in about the same dose as cream of  
tartar.

### POWDER OF BOROTARTRATE OF POTASSA.

R. Cream of tartar one ounce  
Borax three drachms  
Sugar two ounces

Mix, and divide into three powders; one  
to be taken, in a glass of water, every half  
hour. *Pierquin.*

### COMPOUND PILLS OF BOROTARTRATE OF POTASSA.

R. Borotartrate of  
potassa one drachm and a-half  
Extract of buckbean two ounces  
Seneca snakeroot two drachms  
Colchicum one drachm and a-half

Mix, and make pills of two grains. Dose,  
six to twelve every two hours, as a hydra-  
gogue purgative. *Augustin.*

### SOLUTION OF BOROTARTRATE OF POTASSA.

R. Cream of tartar  
Borax, each, one drachm

Boiling water one pint  
Dissolve. *Bories.*

### MIXTURE OF BOROTARTRATE OF POTASSA.

R. Borotartrate of  
potassa four to six drachms

Juniper water  
Parsley water, each, three ounces

Dissolve, and add  
Nitric ether two drachms

Syrup of poppies one ounce

Mix. Two spoonfuls every two hours, as  
a diuretic. *Niemann.*

R. Borotartrate of potassa one ounce

Mint water eight ounces

Nitric ether two drachms

Oxymel of squill one ounce

Mix. Two spoonfuls, every two hours,  
as a diuretic. *Selig.*

R. Borotartrate of potassa half an ounce

Tartar emetic one grain

Water four ounces

Mix. In spoonful doses, in congestion of  
the head. *Radius.*

### BOROTARTRATE OF POTASSA AND MAGNESIA.

R. Borotartrate of potassa one part

Carbonate of mag-  
nesia one-fourth part

Water six parts

Dissolve the borotartrate in the water, in a  
silver basin, saturate with the magnesia,  
evaporate carefully, till reduced to a tena-  
cious paste, which divide into small masses,  
and dry in a stove. *Mailliere Renault.*

### MIXTURE OF BOROTARTRATE OF POTASSA AND MAGNESIA.

R. Borotartrate of potassa  
and magnesia thirty parts

Citric acid two parts

Syrup of lemon sixty parts

Warm water three hundred parts

Dissolve. *Mailliere Renault.*

## POTASSÆ CARBONAS.

### CARBONATE OF POTASSA.

R. Impure carbonate  
of potassa three pounds

Water two pints and a-half

Dissolve the impure carbonate in the water,  
filter, pour into a clean iron vessel, and  
evaporate over a gentle fire, till the solu-  
tion thickens, then remove from the fire,  
and stir constantly, with an iron spatula,  
till the salt granulates. *U. S. Ph.*



Used as an antacid, and diuretic, &c. Dose, from five to twenty grains.

### PURE CARBONATE OF POTASSA.

R. Bitartrate of potassa two pounds  
Nitrate of potassa one pound  
Rub them separately into powder, mix, and throw the mixture into a brass vessel, heated nearly to redness, from the residue prepare as directed for the carbonate.

*U. S. Ph.*

R. Bicarbonate potassa at will  
Put it in an iron crucible, heat gradually to redness for half an hour; when cold, remove the carbonate, and if discolored by the iron vessel, dissolve in water, filter, and evaporate to dryness in a porcelain crucible.

*W. Procter.*

### SOLUTION OF CARBONATE OF POTASSA.

R. Carbonate of potassa one pound  
Distilled water twelve fl. ounces  
Dissolve, and filter. *U. S. Ph.*  
Dose, ten minims to a fl. drachm, properly diluted.

### POWDER OF CARBONATE OF POTASSA.

R. Carbonate of potassa ten grains  
Powdered chamomile  
myrrh, each,  
twenty-four grains

Mix. To be taken every hour, in the apyrexia of intermittents. *Foy.*

R. Carbonate of potassa one part  
Powdered gum Arabic eight parts  
Triturate together for a long time. Dose, half a drachm to a drachm, dissolved in water, in engorgement of the bowels.

*Guibourt.*

### COLLYRIUM OF CARBONATE OF POTASSA.

R. Carbonate of potassa two to six grains  
Water one ounce

Mix. To be dropped in the eye every two to four hours, in specks on the cornea.

*Himley.*

R. Carbonate of potassa twenty-five grains  
Vcal broth, filtered, sufficient  
Celandine water two ounces  
Digest for twenty-four hours on a sand-bath, filter, and add

Tincture of aloes twenty-four drops  
In specks on the cornea. *Bories.*

### TINCTURE OF CARBONATE OF POTASSA.

R. Carbonate of potassa one part  
Calcine it with a strong heat in a crucible for two hours, pour it in a heated mortar, pulverize it rapidly, and pour on the hot powder

Alcohol four parts

Digest for fifteen days in a stove, often agitating, and filter. *Guibourt.*

This is a weak alcoholic solution of caustic potassa.

### COLLUTORY OF CARBONATE OF POTASSA.

R. Alcohol four ounces  
Essence of mint twenty drops  
roses eight drops

Cochineal

Carbonate of potassa, each, ten grains  
Macerate for twenty-four hours, and filter. Much esteemed as a mouth-wash and gargle, under the name of "Oriental Water." A teaspoonful is to be used, mixed with a glass of water. *Delabarre.*

### EMULSION WITH CARBONATE OF POTASSA.

R. Carbonate of potassa one scruple  
Yolk of egg three drachms  
Mucilage one drachm  
Oil of almonds  
Cherry water, each, one ounce  
Linden water two ounces

Mix. A teaspoonful, every hour, in the colic of children. *Rosenstein.*

### FOMENTATION WITH CARBONATE OF POTASSA.

R. Carbonate of potassa  
Soap, each, one ounce  
Elder water two pounds

Dissolve, filter, and add  
Sal ammoniac two drachms  
As an application to bruises, &c. *Cadet.*

### LINIMENT WITH CARBONATE OF POTASSA.

R. Solution of carbonate  
of potassa two ounces  
Olive oil four ounces  
Yolk of eggs two

Mix. As an application to chaps. *Plench.*

### LOTION OF CARBONATE OF POTASSA.

R. Carbonate of potassa three drachms  
Water four ounces  
In pruritus vaginae. *Trousseau.*

R. Carbonate of potassa one ounce  
Rose water one pound  
Dissolve, and filter. As an application to chilblains. *Bruyatelli.*

R. Carbonate of potassa three drachms  
Common salt two drachms  
Rose water eight ounces  
Orange flower-water two ounces

Mix. As a lotion in sunburn and tan. *Sundelin.*

### MIXTURE OF CARBONATE OF POTASSA.

R. Carbonate of potassa two drachms  
Antimonial wine one fl. drachm

Laudanum forty drops  
Compound spirit of lavender two fl. drachms  
Distilled water four fl. ounces  
Mix. A tablespoonful, every hour or two, as an expectorant. *Ellis.*  
R. Carbonate of potassa one scruple  
Lemon juice four fl. drachms  
Cinnamon water seven fl. drachms  
Wine of ipecacuanha fifteen to twenty drops  
Mix. To be taken every three or four hours, as a diaphoretic. *Burke.*  
R. Carbonate of potassa one scruple  
Powdered gum Arabic half a drachm  
Oil of mint two drops  
Laudanum ten drops  
Water three drachms  
Mix. A tablespoonful for a dose, as may be required, in sickness of the stomach. *Ellis.*  
R. Carbonate of potassa one drachm  
Peppermint water four ounces  
Hoffmann's anodyne two scruples  
Simple syrup half an ounce  
Mix. Dose, a tablespoonful, in asthma, with acidity of the stomach. *Augustin.*  
R. Carbonate of potassa  
White sugar, each, one drachm  
Compound spirit of lavender two fl. drachms  
Laudanum forty drops  
Mint water four fl. ounces  
Mix. A tablespoonful, every hour or two, in sickness of the stomach, with acidity. *Ellis.*  
R. Aromatic spirit of ammonia one fl. drachm  
Carbonate of potassa two drachms  
Cinnamon water four fl. ounces  
Mix. A teaspoonful occasionally, in pyrosis. *Ellis.*  
R. Carbonate of potassa  
Ipecacuanha  
Calomel, each, one drachm and a-half  
Water two pints  
Boil down to one-half in an earthen vessel. Two spoonfuls a-day, in a quart of infusion of sarsaparilla. *St. Marie.*  
R. Carbonate of potassa one drachm  
Elder-flower water six ounces  
Syrup of marsh mallow one ounce  
Mix. A spoonful every hour, in angina, accompanied with aphtha, in catarrhal fevers. *Radiis.*  
R. Carbonate of potassa one scruple  
Cochineal half a drachm

Hyssop water four ounces  
Syrup of poppies  
tolu, each, half an ounce  
Orange flower-water  
Syrup of ipecacuanha, each, one ounce  
Mix. A spoonful, every two hours, in hooping-cough. *Bories.*

COMPOUND TINCTURE OF CARBONATE OF POTASSA.

R. Carbonate of potassa  
Cinnamon water, each, one pound  
Opium two ounces  
Vinous cinnamon water four ounces  
Digest in a water-bath for three weeks, often agitating; and add to the filtered solution.  
Gum Arabic two ounces  
Carbonate of ammonia one ounce  
Cinnamon water six ounces  
In syphilis. *Niemann.*

ointment OF CARBONATE OF POTASSA.

R. Carbonate of potassa one ounce  
Flowers of sulphur two ounces  
Lard four ounces  
Mix. As a friction in itch. *Brera.*

POTASSÆ BICARBONAS.

BICARBONATE OF POTASSA.

R. Carbonate of potassa four pounds  
Distilled water ten pints  
Dissolve the carbonate in the water, and pass carbonic acid through the solution, till it is fully saturated. Then filter and evaporate, that crystals may form, taking care that the heat does not exceed 160°. Pour off the supernatant liquor, and dry the crystals on bibulous paper. Carbonic acid is obtained from marble, by the addition of dilute sulphuric acid. *U. S. Ph.*

Properties are the same as those of the carbonate, but it generally agrees better with the stomach. Dose, twenty grains to a drachm.

EFFERVESCENT POWDERS OF BICARB. POTASSA.

R. Bicarbonate of potassa six hundred and forty grains.  
Divide into sixteen powders.  
R. Tartaric acid one ounce  
Divide into sixteen powders.  
Keep the acid and alkaline powders in paper of different colors. *Ed. Ph.*

Usually made with the bicarbonate of soda.

EFFERVESCENT SOLUTION OF POTASSA.

R. Bicarbonate of potassa one drachm  
Distilled water one pint (Imp.)

Dissolve, and pass into it carbonic acid, compressed by force, more than is sufficient for saturation; keep in a well-stopped vessel.  
*Lond. Ph.*

#### MIXTURE OF BICARBONATE OF POTASSA.

R. Bicarbonate of  
potassa ten to fifteen grains  
Seltzer water six fl. ounces  
Dissolve. To be taken three or four times  
a-day, as an antilithic. *Ellis.*  
R. Bicarbonate of potassa one drachm  
Mint water six ounces  
Dissolve. A spoonful every hour—has  
been recommended in cholera.  
*Ammon.*

### POTASSÆ ET AMMONIÆ CARBONAS.

#### CARBONATE OF POTASSA AND AMMONIA.

R. Carbonate of potassa four parts  
ammonia one part  
Water sufficient  
to dissolve the two salts; pass a current of  
carbonic acid through the solution to satu-  
ration, heat gently, and let crystallize.  
In doses of half a drachm, in half an  
ounce of mint water, four times a-day, in  
diabetes, dyspepsia, gravel, &c.

*Swediaur.*

### POTASSÆ CHLORAS.

#### CHLORATE OF POTASSA.

R. Carbonate of potassa two parts  
Quicklime one part  
and expose to a current of chlorine. When  
saturated, heat the mixture gently, digest  
it in water, and separate the chlorate from  
the filtered liquid, by crystallization.

*Graham.*

Has been used in scurvy, chronic hepatitis,  
syphilis, &c., in doses of fifteen to twenty grains.

#### POWDER OF CHLORATE OF POTASSA.

R. Chlorate of potassa six to eight grains  
Sugar one scruple  
Mix. To be given two to four times a-  
day, in phthisis, to diminish the febrile  
state. *Radius.*

#### COMPOUND POWDER OF CHLORATE OF POTASSA.

R. Chlorate of potassa seven grains  
Muriate of soda one scruple  
Carbonate of soda half a drachm  
Mix. For a dose. *Stevens.*  
Recommended in cholera.

#### SOLUTION OF CHLORATE OF POTASSA.

R. Chlorate of potassa one drachm  
Distilled water twelve fl. ounces  
Dissolve. *Copland.*

As a lotion to indolent ulcers.

R. Chlorate of potassa half a drachm  
Syrup two and a-half drachms  
Water twelve and a-half drachms  
Mix. To be given in the course of the  
day, in tablespoonful doses, in cancerum  
oris. *H. Hunt.*

R. Chlorate of  
potassa one drachm and a-half  
Distilled water five ounces  
Dissolve. A tablespoonful, every two  
hours, in obstinate rheumatism, tie-dou-  
loureux, &c. *Knod.*

### POTASSÆ CITRAS.

#### CITRATE OF POTASSA.

R. Citric acid ten ounces  
Bicarbonate of potassa fourteen ounces  
Water two pints  
Dissolve the acid in the water, and gradu-  
ally add the bicarbonate, when effervescence  
ceases; filter the solution, if necessary,  
through paper, free from iron, and evaporate  
to dryness, in a porcelain capsule, ob-  
serving to stir constantly, as soon as the  
salt begins to granulate. *W. Procter.*

R. Carbonate of potassa three drachms  
Recent lemon juice sufficient  
to saturate. Let stand for twenty-four  
hours, filter, and evaporate to dryness.  
*Van Mons.*

#### SOLUTION OF CITRATE OF POTASSA.

R. Citric acid half an ounce  
Oil of lemons two minims  
Water half a pint  
Carbonate of potassa sufficient  
Rub the citric acid with the oil of lemons,  
and then with the water, till dissolved;  
lastly, add the carbonate of potassa gradu-  
ally, till the acid is perfectly saturated,  
then filter. *U. S. Ph.*

This neutral mixture is used where fresh  
lemon juice cannot be procured; it is as effica-  
cious, but is not as agreeable.

R. Citrate of potassa two drachms  
Distilled water four to six fl. ounces  
Oil of lemons two drops  
White sugar two drachms  
Mix. A tablespoonful to be taken every  
two hours. In same cases as the neutral  
mixture. *Ellis.*



COMPOUND NEUTRAL MIXTURE.

R. Lemon juice one ounce  
Carbonate of potassa sufficient  
to saturate, add  
Mint water seven ounces  
Tartar emetic one grain  
Syrup half an ounce  
Mix. *Lisbon Ph.*

MIXTURE OF CITRATE OF POTASSA, AND PERUVIAN BARK.

R. Lemon juice one fl. ounce and a-half  
Carbonate of potassa one drachm  
Tincture of Peruvian bark one fl. ounce  
Cinnamon water three fl. ounces  
Mix. A tablespoonful every two hours.  
To promote insensible perspiration while taking bark. *Ellis.*

POTASSÆ IODAS.

IODATE OF POTASSA.

R. Iodine at will  
Caustic potassa sufficient  
Dissolve the iodine in the alkali, till the solution begins to become colored. Evaporate to dryness; treat the residue with alcohol, and preserve the residue. The alcohol takes up the iodide of potassium. *Ferrara Ph.*

SYRUP OF IODATE OF POTASSA.

R. Iodate of potassa twenty grains  
Peppermint water two drachms  
Simple syrup ten ounces  
Mix. *Giordano.*

POTASSÆ NITRAS.

NITRATE OF POTASSA.

POTASSÆ NITRAS PURIFICATUM.

PURIFIED NITRATE OF POTASSA.

R. Nitrate of potassa one part  
Boiling water two parts  
Dissolve, filter, and set aside, so that, on cooling, crystals may form. *Dub. Ph.*

FUSED NITRATE OF POTASSA. SAL PRUNELLE.

R. Nitrate of potassa at will  
Melt in a crucible, and cast it into moulds. *Guibourt.*  
R. Nitrate of potassa two pounds and a-half  
Melt in a crucible, adding gradually,  
Flowers of sulphur half an ounce  
After the deflagration, and the mixture is

somewhat cooled, pour it into a basin, and turn this in all directions, so that the mass may cool in a third and uniform layer. When cool, break this in pieces. *Span. Ph.*

This preparation will contain some sulphate of potassa.

POWDER OF NITRATE OF POTASSA AND ORRIS ROOT.

R. Nitrate of potassa one drachm  
Spermaceti two drachms  
Sugar  
Orris root, each, one ounce  
Mix. A teaspoonful, in catarrhal affections. *Augustin.*

COMPOUND NITROUS POWDERS.

R. Powdered nitre one drachm and a-half  
Tartar emetic one grain  
Calomel four grains  
Mix, and divide into eight powders. One every two hours. As a diaphoretic, &c. in fever. *Dewees.*  
R. Nitrate of potassa two ounces  
Bitartrate of potassa four drachms  
Tartar emetic four grains  
Mix. *Beasley.*

POWDER OF NITRATE OF POTASSA AND SQUILL.

R. Nitrate of potassa fifteen grains  
Powdered squill  
pimento, each, ten grains  
Mix. Dose, ten to twenty grains, two or three times a-day, as a diuretic. *Swediaur.*

POWDER OF NITRATE OF POTASSA AND CAMPHOR.

R. Nitrate of potassa ten grains  
Camphor four to eight grains  
Gum Arabic twenty-four grains  
Mix, and triturate well; one-third to one-half at a dose. *Foy.*

PILLS OF NITRATE OF POTASSA.

R. Nitrate of potassa six drachms  
Gum Arabic three drachms  
Liquorice root  
Marsh mallow, each, three ounces  
Simple syrup sufficient  
Mix, and make pills of five grains. In inflammation of the urethra and dysuria; five or six, three times a-day. *Foy.*

PILLS OF NITRATE OF POTASSA AND CAMPHOR.

R. Nitrate of potassa four parts  
Camphor  
Conserve of roses, each, two parts  
Mix, and make pills of four grains. Two to ten a-day, in gonorrhœa. *Guibourt.*

## NITRATED EMULSION.

R. Nitrate of potassa two drachms  
 Sugar of milk one ounce  
 Extract of henbane half a scruple  
 Emulsion of almonds one pound  
 Mix, and dissolve. A spoonful every  
 hour, in gonorrhœa. *Phæbus.*

COOLING LOTION OF NITRATE OF  
 POTASSA.

R. Nitrate of potassa  
 Sal ammonia, each, one part  
 Water forty-eight parts  
 Dissolve, and add  
 Vinegar four parts  
 As a lotion and application, by means of  
 compresses, to contusions and ecchymoses.  
*Hep. Ph.*

## NITRATE OF POTASSA GARGLE.

R. Nitrate of potassa seven drachms  
 Barley water fourteen fl. ounces  
 Oxymer one fl. ounce and a-half  
 Mix. As gargle, in inflammatory sore  
 throat. *Ainslie.*

## MIXTURE OF NITRATE OF POTASSA.

R. Nitrate of potash eight grains  
 Tincture of digi-  
 talis fifteen to twenty drops  
 Water ten fl. drachms  
 Sweet spirit of nitre  
 Syrup of roses, each, half a fl. drachm  
 Mix. To be taken twice a-day, as a di-  
 uretic. *Burke.*

R. Nitrate of potassa one drachm and a-half  
 Mucilage of gum Arabic two fl. ounces  
 Antimonial wine forty minims  
 Syrup of orange peel half a fl. ounce  
 Water four fl. ounces  
 Mix. One fl. ounce, three times a-day, in  
 remittent fever, with hot skin. *Ainslie.*

R. Nitrate of potash eight to ten grains  
 Water eleven fl. drachms  
 Solution of tartar emetic fifteen drops  
 Simple syrup  
 Sweet spirit of nitre, each,  
 half a fl. drachm

Mix. To be taken twice a-day, as a di-  
 phoretic. *Burke.*

R. Extract of chamomile one drachm  
 Nitrate of potassa one ounce  
 Chamomile water four ounces

Mix. A spoonful every two or three hours,  
 as an antispasmodic. *Radius.*

R. Nitrate of potassa half an ounce  
 Barley water one pound  
 Syrup of marsh mallows six ounces  
 Oil of almonds four ounces

Mix. A glassful every four hours, in dys-  
 urry and strangury. *Cadet.*

R. Nitrate of potassa two drachms  
 Decoction of asparagus two pounds  
 Oxymer of squill half an ounce

Mix. To be taken in divided doses, as a  
 diuretic. *Brera.*

R. Juniper berries, bruised, two ounces  
 Boiling water one pint

When cold, strain, and add  
 Nitrate of potassa two drachms  
 Syrup of ginger one fl. ounce

One ounce to an ounce and a-half, every  
 three or four hours, in dropsy. *Hartman.*

## POTASSÆ OXALAS.

## OXALATE OF POTASSA.

The article usually sold for oxalate of potassa,  
 salt of sorrel, &c., is the binoxalate of potassa.  
 It is not much used in medicine, but is employed  
 in the arts, to remove ink and iron stains from  
 linen and cotton; to bleach the straw for bon-  
 nets, &c.

R. Oxalic acid one part  
 Carbonate of potassa sufficient  
 to saturate; add to the solution three  
 parts more of the acid; evaporate, and  
 crystallize. *Cooley.*

## POWDER OF OXALATE OF POTASSA.

R. Oxalate of potassa twenty grains  
 Tartrate of potassa  
 Sulphate of potassa, each, one drachm  
 Scammony fifteen grains  
 Red saunders ten grains  
 Mix. To be taken in the morning, in in-  
 termittent fevers. Two doses are stated  
 to be sufficient. *Giordano.*

## LOZENGES OF OXALATE OF POTASSA.

R. Oxalate of potassa  
 one drachm and a-half  
 White sugar eight ounces  
 Gum tragacanth two scruples  
 Lemon water five drachms  
 Oil of lemons eight drops  
 Mix, and make lozenges of twelve grains.  
*Guibourt.*

## POTASSÆ SILICAS.

## SILICATE OF POTASSA.

R. Powdered quartz or flint one part  
 Subcarbonate of potassa two parts  
 Mix, and fuse in a crucible; when cool,  
 dissolve in water; filter, and evaporate to  
 dryness.

SOLUTION OF SILICATE OF POTASSA.

R. Silicate of potassa ten to fifteen grains  
Distilled water six to eight fl. ounces  
Dissolve. To be taken twice a-day, to  
remove gouty conerctions. *Ure.*

SOLUBLE GLASS.

R. Subearbonate of potassa seventy parts  
Subearbonate of soda fifty-four parts  
Silex one hundred and ninety-two parts  
Melt together. The resulting glass is  
soluble in boiling water. The solution  
forms a fine, transparent, elastic varnish.  
*Dobereiner.*

POTASSÆ SULPHAS.

SULPHATE OF POTASSA.

R. Residuum of the prepara-  
tion of nitric acid two pounds  
Boiling water two gallons  
Expel the excess of acid by heating the  
salt in a crueible; boil the remainder in  
the water, till a pellicle forms; filter the  
solution; set aside to crystallize; pour  
off the water, and dry the crystals.

*Lond. Ph.*

A mild cathartic, in doses of four or five  
drachms, but in large doses, acts as an irritant.

COMPOUND SALINE POWDER.

R. Sulphate of potassa three ounces  
Muriate of soda  
Sulphate of magnesia, each, four ounces  
Dry the salts separately, with a gentle  
heat; then triturate them well together,  
and preserve in glass vessels. *Ed. Ph.*

Aperient, in doses of two or three drachms,  
dissolved in half a pint of carbonic acid water,  
before breakfast.

POWDER OF SULPHATE OF POTASSA AND  
RHUBARB.

R. Sulphate of potassa one drachm  
Powdered rhubarb  
one scruple and a-half  
chamomile one drachm  
Mix, and divide into six powders; one,  
twice a-day, in sugar and water, in dys-  
pepsia and torpor of the bowels. *Ellis.*  
R. Sulphate of potassa two ounces  
Powdered rhubarb one ounce  
Sal ammoniac half an ounce  
Mix. Half a drachm, in same cases as  
the last. *Pfaff.*

PILLS OF SULPHATE OF POTASSA.

R. Sulphate of potassa two drachms  
Powdered rhubarb two scruples  
Oil of fennel six drops  
Extract of blessed thistle sufficient

Mix, and make sixty pills. Dose, five or  
six a-day, as a purgative. *Phæbus.*

MIXTURE WITH SULPHATE OF POTASSA.

R. Centaury  
Chamomile, each, one ounce  
Water sufficient  
to obtain three pints of infusion; add  
Sulphate of potassa  
Honey, each, two ounces  
Three glassfuls a-day, in fevers.

*Swediaur.*

POTASSÆ BISULPHAS.

BISULPHATE OF POTASSA.

R. Salt remaining after dis-  
tillation of nitric acid two pounds  
Sulphuric acid one pound  
Boiling water six pints (Imp.)  
Dissolve the salt in the water, add the acid,  
and mix. Boil down the solution, and set  
aside, that crystals may form. *Lond. Ph.*  
Aperient and tonic, in doses of one to two  
drachms.

EFFERVESCING DRAUGHT OF SULPHATE  
OF POTASSA.

R. Sulphate of potassa  
Carbonate of soda, each, one drachm  
Dissolve separately, in two fl. ounces of  
water, each; mix, and take whilst effervesc-  
ing. *Barker.*

DISINFECTING POWDER.

R. Acid of sulphate of  
potassa four hundred and ten parts  
Subacetate of lead seventy parts  
Manganese thirty parts  
Reduce these, separately, to fine powder,  
and, when wanted, mix in a proper vessel.  
*Keist.*

POTASSÆ ET AMMONIÆ  
SULPHAS.

SULPHATE OF POTASSA AND AMMONIA.

R. Bisulphate of potassa one part  
Boiling water two parts  
Dissolve, and add  
Solution of ammonia sufficient  
to saturate to excess, and crystallize.  
*Van Mons.*

POTASSÆ ET MAGNESIÆ  
SULPHAS.

SULPHATE OF POTASSA AND MAGNESIA.

R. Sulphate of  
potassa three and a-half parts



Sulphate of magnesia  
Boiling water  
Filter, and crystallize.

ten parts  
sufficient

Mix. Two spoonfuls, night and morning,  
in all forms of hemorrhoidal disease.

*Radiis.*

## POTASSÆ SULPHAS CUM SULPHURE.

SULPHATE OF POTASSA WITH SULPHUR.

R. Nitrate of potassa

Sulphur equal parts

Mix, and throw in small successive portions into a red-hot crucible; when cool, reduce to powder, and keep in well-closed bottles.

*Ed. Ph.*

Has much the same properties as the sulphate of potassa. Dose, half a drachm to a drachm.

R. Tartrate of potassa half an ounce  
Extract of centaury two drachms  
Water eight ounces

Mix. Two spoonfuls every hour or two, in obstructions of the liver. *Swed.aur.*

R. Tartrate of potassa one drachm  
Nitrate of potassa half a drachm  
Manna one ounce

Decoction of dandelion six ounces

Mix. Two spoonfuls, every two hours, in dropsy consecutive to scarlet fever.

*Phabus.*

## POTASSÆ BITARTRAS.

BITARTRATE OF POTASSA.

CREAM OF TARTAR.

This is cathartic, diuretic, and cooling. The dose is from one to two drachms, as an aperient; and from half an ounce to one ounce, as a hydragogue purgative.

DENTIFRICE OF BITARTRATE OF POTASSA.

R. Bitartrate of potassa six parts

Powdered shell lac  
cuttlefish bone  
orris root, each, eight parts  
cloves  
myrrh  
mastic, each, two parts

Triturate well together. *Guibourt.*

R. Bitartrate of potassa

Rhatany equal parts  
Orris root sufficient

to give an agreeable odor. Triturate well together. *Ferrara Ph.*

POWDER OF BITARTRATE OF POTASSA.

R. Bitartrate of potassa three ounces

Nitrate of potassa three drachms  
Sugar four ounces

Mix. Dose, one to two drachms, in whey, as a laxative. *St. Marie.*

R. Bitartrate of potassa a drachm and a-half

Powdered squill two grains  
foxglove one grain  
ginger five grains

Mix. Make a powder, to be taken every eight hours. In ascites and anasarca.

*A. T. Thomson.*

R. Bitartrate of potassa thirty grains

Powdered squill two grains  
ginger four grains

Mix. Make a powder, to be taken every eight hours. Useful in ascites.

*A. T. Thomson.*

## POTASSÆ TARTRAS.

TARTRATE OF POTASSA.

R. Carbonate of potassa sixteen ounces  
Bitartrate of

potassa three pounds, or q. s.

Boiling water one gallon

Dissolve the carbonate of potassa in the water, then gradually add the bitartrate in fine powder to the solution, till it is perfectly saturated, and boil. Filter the liquor, evaporate till a pellicle forms, and set aside to crystallize. Pour off the liquid, and having dried the crystals on bibulous paper, keep them in closely stopped bottles.

*U. S. Ph.*

A mild, cooling purgative, in doses from a drachm to an ounce.

POWDER OF TARTRATE OF POTASSA AND  
RHUBARB.

R. Tartrate of potassa two drachms

Powdered rhubarb  
orange peel, each, one drachm

Oil of cajeput one scruple

Mix. A teaspoonful, three times a-day, in obstructions of the portal system.

*St. Marie.*

MIXTURE OF TARTRATE OF POTASSA.

R. Tartrate of potassa six to eight drachms

Infusion of chicory twenty ounces

Manna two ounces

Mix. To be taken in the morning, in four portions, every day or every second day, for a fortnight, in chronic affections of the liver. *Grant.*

R. Tartrate of potassa one ounce

Extract of soapwort half an ounce

Balm water six ounces

ELECTUARY OF BITARTRATE OF POTASSA.

R. Bitartrate of potassa one ounce  
Powdered ginger  
Conserve of roses, each, one drachm  
Syrup of orange peel sufficient  
Mix. To be taken in spoonful doses, as  
a hydragogue purgative. *Monro.*

OXYMEL OF BITARTRATE OF POTASSA.

R. Bitartrate of potassa one part  
Clarified honey two parts  
Mix. As a purgative in bilious fever and  
dropsies. *Swediaur.*

SOLUTION OF BITARTRATE OF POTASSA.

R. Bitartrate of potassa one ounce  
Water two pints  
Dissolve. To be taken freely during the  
day, as a diuretic. *Ellis.*

COMPOUND SOLUTION OF BITARTRATE OF  
POTASSA.

R. Bitartrate of potassa two drachms  
Manna two ounces  
Water eight ounces  
Lemon juice half an ounce  
Mix, and clarify with the white of an egg,  
infuse a small quantity of orange peel in  
the fluid, and strain on cooling. A plea-  
sant laxative. *Taddei.*

MIXTURE OF BITARTRATE OF POTASSA.

R. Bitartrate of potassa two scruples  
Antimonial wine  
Vinegar of squill, each, half a drachm  
Parsely water one ounce and a-half  
Syrup of seneka six drachms  
Mix. A teaspoonful every two hours, in  
dropsy supervening on scarlatina. *Vogt.*

R. Bitartrate of potassa half an ounce  
Barley water two pounds  
Dissolve, and add  
Brandy one to two ounces  
Much praised as a diuretic in dropsies.

*Milmann.*

R. Bitartrate of potassa one ounce  
Borax two drachms  
Boiling water sufficient  
to dissolve. To ten ounces of the cooled  
solution add  
Nitrate of potassa two drachms  
Oxymel two ounces  
Mix. *Beasley.*

R. Bitartrate of potassa  
Extract of hore-  
hound, each, two drachms  
Balm water three ounces  
Mix. One-half to be taken morning and  
evening, in hemorrhoids, with constipation.  
*Augustin.*

IMPERIAL.

R. Bitartrate of potassa half an ounce  
Lemon, cut into slices, one  
White sugar half a pound  
Water three pints  
Mix. Let stand for half an hour, and  
strain. A pleasant, cooling drink. *Gray.*

POTASSÆ ET AMMONIÆ  
TARTRAS.

TARTRATE OF POTASSA AND AMMONIA.

R. Bitartrate of potassa at will  
Boiling water sufficient  
to dissolve; add, gradually,  
Solution of ammonia  
to saturate the excess of the acid; filter,  
and evaporate, so that crystals may form.  
*Hamb. Ph.*

SOLUTION OF TARTRATE OF POTASSA AND  
AMMONIA.

R. Solution of carbonate of  
ammonia six ounces  
Add, gradually,  
Bitartrate of potassa sufficient  
to saturate, let stand for some hours, and  
filter. Diuretic, in doses of a drachm.  
*Liepsic Ph.*

MIXTURE OF TARTRATE OF POTASSA AND  
AMMONIA.

R. Tartrate of potassa and  
ammonia half an ounce  
Fennel water six ounces  
Extract of dandelion  
Clarified honey, each, one ounce  
Mix. A spoonful every hour, as a diu-  
retic. *Phæbus.*

PRINOS.

BLACK ALDER.

This, which is also known as *Winter berry*,  
is an indigenous shrub, found in most parts of  
the country, principally in low, moist situations;  
flowering in June, and bearing numerous scar-  
let berries, which remain on the bush after the  
fall of the leaves.

*Ser. Syst.* Hexand. monog. *Nat. Syst.* Aquifoliaceæ.

*Linn. Sp. Pl.* 471. *Griffith, Med. Bot.* 434.

The officinal portion is the bark, which, when  
dried for use, is in slender pieces, of a greenish  
white color internally, and of an ash gray, mix-  
ed with brown externally; brittle, inodorous,  
and of a bitter, astringent taste. It is tonic and  
astringent, and has been used with success in  
diarrhœa, intermittent fevers, &c. The dose is  
from thirty grains to a drachm, three or four  
times a-day.

DECOCTION OF BLACK ALDER.

R. Black alder two ounces

Boiling water three pints  
Boil down to a quart, and strain. One  
gill, every two hours. *W. P. C. Barton.*

R. Same as the above, but with half the  
quantity of sugar. *D. S. Jones.*

## PRUNUM.

### PRUNES.

Prunes are the dried fruit of various varieties of *Prunus domestica*, or cultivated Plum tree. They are principally derived from the south of France, and are much used as an article of dessert, but are also employed in medicine, as a laxative, either alone or in combination, especially with senna, as in the confection of senna, &c., in the form of pulp, which is prepared by softening them in the vapor of boiling water; separating the stones, and pressing through a hair sieve.

## PRUNUS VIRGINIANA.

### WILD CHERRY BARK.

This is the bark of *Cerasus serotina*, though the U. S. Pharm. still retains the old, but incorrect designation. The *Cerasus serotina* is found in most parts of the United States, and in some situations attains a very large size.

*Ser. Syst.* Icosand. monog. *Nat. Syst.* Drupaceae.

Decandolle. Prod ii. 540. Griffith, Med. Bot. 288.

The bark of both the roots and branches, is used, but the former is to be preferred. As dried for use, it is in pieces of various sizes; deprived of epidermis; of a reddish brown color, and readily pulverized; when fresh it has an odor of bitter almonds, which is much diminished on drying, but reappears on maceration; the taste is bitter and aromatic. It is tonic, but also exercises a sedative action on the circulatory and nervous systems, and is much used in a variety of diseases. The dose in powder is half a drachm to two drachms.

### INFUSION OF WILD CHERRY BARK.

R. Wild cherry bark, half an ounce  
bruised, one pint  
Cold water  
Macerate for twenty-four hours, and strain. *U. S. Ph.*

Dose, two or three fl. ounces, three or four times a-day.

### SYRUP OF WILD CHERRY BARK.

R. Powdered wild cherry bark four ounces  
Water twelve fl. ounces  
Macerate for two days; put in a displacement apparatus; add water till twelve fl. ounces are obtained, returning the first portions till it comes away clear, then add

Sugar twenty-four ounces  
And form syrup. *Procter.*

Dose, from a fl. drachm to a fl. ounce.

## PYRETHRUM.

### PELLITORY.

This is the root *Anacylus pyrethrum*, a small plant with perennial roots and annual stems, a native of the countries bordering on the Mediterranean.

*Ser. Syst.* Syngen. super. *Nat. Syst.* Astera-ceae.

Decandolle. prod. vi. 15. Griffith, Med. Bot. 402.

The dried root is about the size of the little finger, with a thick, brown bark, marked with black, shining points; it is inodorous; its taste is at first slight, but afterwards extremely acrid, leaving a burning, pricking sensation. It is a powerful local irritant, and is principally used as a masticatory and sialogogue, but has also been employed in intermittents, palsies, &c.

### LOZENGES OF PELLITORY.

R. Powdered pellitory mastich, each, one drachm  
Mucilage of tragacanth sufficient  
Mix, and make lozenges of twelve grains each. As a masticatory in toothache. *Foy.*

### TINCTURE OF PELLITORY.

R. Pellitory one part  
Alcohol four parts  
Macerate for eight days, and filter.

*Par. Cod.*

### COMPOUND TINCTURE OF PELLITORY.

R. Pellitory four drachms  
Camphor three drachms  
Opium one drachm  
Oil of cloves two drachms  
Alcohol six fl. ounces  
Macerate for eight days, and filter. As a sialogogue in toothache. *Brande.*

R. Pellitory one ounce  
Para cress four ounces  
Italian elecampane one ounce  
Alcohol eight fl. ounces  
Macerate for fifteen days, express, and filter. Much celebrated as an odontalgic, under the name of *Paraguay Roux*.

### LINIMENT OF PELLITORY.

R. Tincture of pellitory six. fl. drachms  
Camphorated oil half a fl. ounce  
Water of ammonia half a fl. drachm  
Mix. As a lotion for chilblains, and in rheumatic pains. *Radiis.*

### PLASTER OF PELLITORY.

R. Yellow wax three ounces  
Turpentine two ounces and a-half  
Melt together, and add



Ammoniac  
Sagapenum  
Galbanum  
Powdered pelltory  
mustard, each, one ounce  
Mix well. As a rubefacient application  
in rheumatism, &c. *Cadet.*

## EXTRACT OF PELLITORY.

R. Pelltory, ground, one pound  
Alcohol two pints  
Ether half a pint

Mix the ether with a pint of the alcohol, pour it gradually on the powder, put it in a displacer, when it ceases to drop, add the remainder of the alcohol, and finally sufficient diluted alcohol, to displace two pints and a half in all. Allow the ethero-alcoholic tincture to evaporate spontaneously, or with a moderate heat, until a soft extract is obtained.

Employed to destroy the sensibility of the nerves of teeth, previous to plugging, or for toothache. *W. Procter.*

## Q

## QUASSIA.

## QUASSIA.

Under the name of Quassia, the wood of two different plants is used,—that of *Q. amara*, and of *Q. (Picræna) excelsa*, the latter being alone recognized in the U. S. Pharm. This is furnished by a large tree found in many of the West India islands, and known as the *bitter ash*.

*Sex. Syst.* Pentand. monog. *Nat. Syst.* Simarubaceæ.

*Lind. Flor. Med.* 208. *Griffith, Med. Bot.* 200.

It is found in commerce, in billets of various sizes, having a smooth, brittle bark. The wood is white, but becomes yellowish on exposure to the air; it has scarcely any smell, but possesses an intense, permanent bitter taste. It is a pure and powerful tonic, and is much used for that purpose. It is seldom given in substance.

## INFUSION OF QUASSIA.

R. Rasped quassia two drachms  
Cold water one pint  
Macerate for twelve hours, and strain.

*U. S. Ph.*

Dose, two fl. ounces, three or four times a-day.

## COMPOUND INFUSION OF QUASSIA.

R. Quassia  
Serpentaria  
Orange peel, each, half an ounce  
Boiling water two pints  
Infuse and strain. A teacupful, cold,  
three times a-day. *Ellis.*

## EXTRACT OF QUASSIA.

R. Prepared like extract of gentian.

*U. S. Ph.*

Dose, about five grains. A very efficient, bitter tonic.

## TINCTURE OF QUASSIA.

R. Rasped quassia two ounces

Diluted alcohol two pints  
Macerate for fourteen days, express, and filter; or it may be made by displacement.

*U. S. Ph.*

Dose, two fl. drachms.

## COMPOUND TINCTURE OF QUASSIA.

R. Bruised cardamoms  
cochineal, each, half an ounce  
Powdered cinnamon  
Chipped quassia, each, six drachms  
Raisins seven ounces  
Diluted alcohol two pints (impl.)

Digest for seven days, strain, express residue, and filter. Dose, one or two fl. drachms. *Ed. Ph.*

## WINE OF QUASSIA.

R. Rasped quassia half an ounce  
Orange peel two drachms  
Wine one pint and a-half

Macerate for twenty-four hours, express, and filter. Dose, three fl. drachms to a fl. half ounce, twice a-day. *Radiis.*

## QUERCUS.

## OAK BARK.

Several species of oak are recognized as official in the Pharmacopœias, as the *Q. alba*, or *White oak*, and *Q. tinctoria*, or *Black oak*, in the U. S.; *Q. pedunculata*, European *White oak*, in the Lond. and Edin.; *Q. robur*, European oak, in the Dublin.

*Sex. Syst.* Monœc. polyand. *Nat. Syst.* Corylaceæ.

The part used is the bark; this, in all the species, is astringent and tonic, and has been used in a variety of diseases, but more generally as an external application than as an internal

remedy. The dose is from thirty grains to a drachm.

### COMPOUND POWDER OF OAK BARK.

R. Powdered oak bark           one scruple  
Calamus  
Gentian, each,                   five grains  
Mix. To be taken every three hours, in  
appyrexia of intermittents. *Augustin.*

### EXTRACT OF OAK BARK.

R. To be prepared like extract of gentian.  
*Dub. Ph.*

The dose is from ten to forty grains.

### DECOCTION OF OAK BARK.

R. Oak bark                   eight drachms  
Water                       two pints  
Boil down to one pint, and strain.  
*Dub. Ph.*

The *U.S. Ph.*, for decoction of white oak bark, orders one ounce of the bark, and water a pint and a-half. The dose is a wineglassful, as an astringent in chronic diarrhoea, &c.

### GARGLE OF OAK BARK.

R. Decoction of oak bark           one pint  
Add  
Alum                           half a drachm  
Brandy                       two fl. ounces  
As a gargle in chronic sore throat, with relaxed uvula, and as an injection in leucorrhœa. *Ellis.*

### CATAPLASM OF OAK BARK.

R. Powdered oak bark  
catechu  
Barley meal, each,           one ounce  
Water                       sufficient  
Boil to the proper consistence. *Foy.*  
As an application in gangrene and mortification.

### CONFECTION OF ACORNS.

R. Powdered acorns           three ounces  
red coral  
catechu, each,               one ounce and a-half  
Confection of dog rose   ten ounces  
Syrup of red roses       sufficient  
Mix. One drachm every four hours, in chronic diarrhoea. *Bories.*

### ACORN COFFEE.

R. Acorns, roasted,           six drachms  
Coffee, roasted,           two drachms  
Water                       sufficient  
Boil for a short time, and strain. Two or three cupfuls a-day, in scrofula and rachitis. *Augustin.*

## QUINIA.

### QUININE.

R. Sulphate of quinine           one part  
Boiling water           thirty parts  
Dissolve. Add water of ammonia sufficient to precipitate the quinine, wash the precipitate in warm distilled water, and dry it.

### TINCTURE OF QUININE.

R. Quinine                   one part  
Alcohol                   seven parts  
Dissolve. Dose, twenty to forty drops. *Beral.*

### IMPURE QUININE.

R. Yellow bark           one hundred parts  
Muriatic acid           five parts  
Water                   five hundred parts  
Boil, decant, and repeat process three times with the same proportions of acid and water; unite decoctions, precipitate with milk of lime, wash and dry the precipitate, treat it several times with boiling alcohol, mix, and filter the solutions, and distil off the spirit. *Trousseau.*

This is said to be as active as the sulphate, and to be less unpleasant to the taste. It is given in the same doses.

### TINCTURE OF IMPURE QUININE.

R. Impure quinine           one ounce  
Alcohol  
Distilled water, each, twelve fl. ounces  
Mix. *Piorry.*

### AMORPHOUS QUININE, OR CHINOÏDINE.

R. Mother waters of sulphate of quinine           at will  
Solution of carbonate of potassa           sufficient  
to precipitate. Wash and dry this precipitate, dissolve in sulphuric ether, decant, and evaporate by a gentle heat. *Neligan.*

## QUININÆ ACETAS.

### ACETATE OF QUININE.

R. Quinine                   two parts  
Distilled water           three parts  
Heat, and add as much acetic acid as will dissolve the quinine, and render the solution somewhat acid. Filter whilst boiling, and set aside to crystallize. *Cottereau.*  
Acts like the other salts of quinine, and is in no way superior to them.

## QUININÆ ARSENIAS.

### ARSENATE OF QUININE.

R. Arsenic acid      one drachm and a-half  
 Distilled water      six fl. ounces  
 Quinine      five drachms  
 Boil till solution takes place. Filter, let  
 crystallize, and purify by recrystallization.  
 In intermittents; dose, one-fifth of a grain.

*Bourieres.*

## QUININÆ CITRAS.

### CITRATE OF QUININE.

R. Quinine      two parts  
 Distilled water      three parts  
 Heat, and add sufficient citric acid to  
 acidulate the mixture; when a perfect so-  
 lution is effected, filter, and set aside to  
 crystallize.

*Magendie.*

The dose is the same as that of the sulphate;  
 in the same cases.

### SYRUP OF CITRATE OF QUININE.

R. Acid citrate of  
 quinine,      thirty-six grains  
 Simple syrup      one pint  
 Mix. Half fl. ounce to fl. ounce, in the  
 twenty-four hours.

*Magendie.*

## QUININÆ ET FERRI CITRAS.

### CITRATE OF QUININE AND IRON.

See *Ferri et Quininx Citras.*

## QUININÆ FERROCYANAS.

### FERROCYANATE OF QUININE.

R. Sulphate of quinine one hundred parts  
 Ferrocyanide of  
 potassa      thirty-one parts  
 Distilled water

two thousand five hundred parts

Boil for a few minutes, let the solution  
 cool; separate the oily compound, and  
 wash it with a little water. Dissolve it  
 in boiling alcohol, and let crystallize.

*Par. Cod.*

Said to be more efficacious than any other salt  
 of quinia. Dose, about the same as the sul-  
 phate.

### MIXTURE OF FERROCYANATE OF QUI- NINE.

R. Ferrocyanate of quinine      four grains  
 Alcohol      one fl. drachm  
 Dissolve, and add  
 Camphor water      seven fl. drachms  
 To be taken as required, shaking the vial.

*Donovan.*

## PILLS OF FERROCYANATE OF QUININE.

R. Ferrocyanate of  
 quinine      twenty-four grains  
 Mucilage of gum Arabic      sufficient  
 Mix, and make twelve pills. Two for a  
 dose.

*Donovan.*

## QUININÆ HYDRIODAS.

### HYDRIODATE OF QUININE.

R. Add, by drops, a solution of twenty-  
 four parts of iodide of potassium, in eight  
 parts of water, to a strong solution of  
 twenty parts of sulphate of quinine; wash  
 the precipitate quickly, and dry in the  
 shade.

*Righini.*

In obstinate intermittents and scrofulous af-  
 fections.

## QUININÆ ET FERRI IODI- DUM.

### IODIDE OF QUININE AND IRON.

R. Pour a strong solution of acid sul-  
 phate of quinine into a fresh solution of  
 iodide of iron; collect the precipitate;  
 dry by pressing between blotting paper,  
 and keep it from the air.

*Bouchardat.*

## QUININÆ HYDRIODAS IODU- RETA.

### IODURETTED HYDRIODATE OF QUININE.

R. Add a solution of iodide of iron, con-  
 taining a slight excess of iodine, to an  
 acid solution of quinine. Treat the pre-  
 cipitate with boiling alcohol, and filter  
 whilst hot, and set aside to crystallize.

*Bouchardat.*

These preparations are useful where an al-  
 terative and tonic are required.

## QUININÆ ET HYDRARGYRI- CHLORIDUM.

### DOUBLE CHLORIDE OF QUININE AND MERCURY.

R. Corrosive sublimate      one part  
 Hydrochlorate of quinine      three parts  
 Dissolve separately, in the smallest quan-  
 tity of water; mix the solutions; collect  
 the precipitate, and dry by a gentle heat.

*McDermott.*

### PILLS OF DOUBLE CHLORIDE OF QUI- NINE AND MERCURY.

R. Double chloride of quinine  
 and mercury      fifteen grains  
 Opium      six grains



Crumb of bread sufficient  
Mix, and form thirty pills. One, three  
times a-day, to produce salivation.

*Hamilton.*

## QUININÆ KINAS.

### KINATE OF QUININE.

R. Alcoholic solution of sul-  
phate of quinine at will  
Aqueous solution of kinate  
of lime sufficient  
to precipitate; filter, evaporate; redissolve,  
and crystallize. *Magendie.*

### PILLS OF KINATE OF QUININE.

R. Kinate of quinine  
Black pepper  
Extract of worm-  
wood, each, one drachm  
Mix, and make sixty pills. Three, every  
two or three hours, in obstinate intermit-  
tents. *Ronander.*

## QUININÆ LACTAS.

### LACTATE OF QUININE.

R. Lactic acid at will  
Quinine sufficient  
to saturate; leave the solution to evapo-  
rate spontaneously, in a shallow vessel, in  
a warm room, till crystals are formed.

*Bouchardat.*

### PILLS OF LACTATE OF QUININE.

R. Lactate of quinine half a drachm  
Extract of juniper sufficient  
Mix, and make twenty pills. Two to six  
a-day, in intermittents. *Bouchardat.*

### MIXTURE OF LACTATE OF QUININE.

R. Lactate of quinine seven grains  
Mint water five fl. drachms  
Syrup of cloves one fl. drachm  
Water three and a-half fl. ounces  
Mix. To be taken in divided doses dur-  
ing the apyrexia of intermittents.

*Bouchardat.*

### SYRUP OF LACTATE OF QUININE.

R. Lactate of quinine fifteen grains  
Dissolve in  
Water one fl. ounce  
Add  
Sugar two ounces  
Form syrup. A teaspoonful, in the inter-  
mittents of children. *Bouchardat.*

## QUININÆ MURIAS.

### MURIATE OF QUININE.

R. Sulphate of  
quinine one ounce and a-half  
Chloride of barium half an ounce  
Dissolve separately, in boiling distilled  
water; mix the solutions, filter, and eva-  
porate to crystallization. *Guibourt.*  
R. Diluted muriatic acid at will  
Quinine sufficient  
to saturate; evaporate, and crystallize.  
Dose, from half a grain to a grain.  
*Cottureau.*

### MIXTURE OF MURIATE OF QUININE.

R. Muriate of quinine twelve grains  
Diluted muriatic acid five minims  
Distilled water seven fl. ounces  
Syrup of orange flowers one fl. ounce  
Mix. Dose, one fl. ounce. *Neligan.*  
R. Muriate of quinine eight grains  
Fennel water five fl. ounces  
Muriatic ether one fl. drachm  
Sugar half an ounce  
Mix. A spoonful every two hours.

*Radiis.*

R. Muriate of quinine one scruple  
Peppermint water one half fl. ounce  
Mix. Twenty to sixty drops, every two  
hours, in intermittents of children.

*Radiis.*

## QUININÆ NITRAS.

### NITRATE OF QUININE.

R. Diluted nitric acid at will  
Quinine sufficient  
to saturate; boil with animal charcoal,  
filter, evaporate, and let crystallize.

*Taddei.*

## QUININÆ PHOSPHAS.

### PHOSPHATE OF QUININE.

R. Quinine two parts  
Water three parts  
Boil, and add  
Phosphoric acid sufficient  
to saturate; filter while hot, and let crys-  
tallize. *Turin Ph.*

## QUININÆ SULPHAS.

### SULPHATE OF QUININE.

R. Yellow bark, in coarse  
powder, four pounds

Muriatic acid	three fl. ounces
Lime, in powder,	five ounces
Water	five gallons
Sulphuric acid	
Alcohol	
Animal charcoal, each,	sufficient

Boil the bark in one-third of the water, with one-third of the muriatic acid, and strain through linen. Repeat this process twice. Mix the decoction, and, whilst hot, gradually add the lime, mixed with two pints of water, stirring constantly, till quinia is precipitated. Wash precipitate with distilled water, press, dry, and digest in boiling alcohol; decant, and repeat, till alcohol is no longer rendered bitter. Mix the liquors, and distil off the alcohol, till a brown, viscid mass remains; add to this half a gallon of distilled water, heat to boiling, and add as much sulphuric acid as will dissolve the impure quinia; then add one ounce and a-half of animal charcoal, boil for two minutes, filter while hot, and set aside to crystallize. If the solution be entirely neutral, acidulate slightly with sulphuric acid; if too acid, add more animal charcoal. Separate the crystals, dissolve them in boiling water a little acidulated with sulphuric acid, add a little animal charcoal, recrystallize; place the crystals in bibulous paper, and dry by a gentle heat. Treat the mother waters with solution of ammonia, and proceed with the precipitate as before. *U. S. Ph.*

## POWDER OF SULPHATE OF QUININE.

R. Sulphate of quinine                    three to twelve grains  
White sugar                                two drachms  
Mix, and divide into six powders.

POWDER OF SULPHATE OF QUININE AND  
TARTAR EMETIC.

R. Sulphate of quinine      ten grains  
Tartar emetic              three grains  
Mix, and divide into six powders. One,  
every two hours, in the apyrexia of obsti-  
nate intermittents. *Gola.*

POWDER OF SULPHATE OF QUININE AND  
SODA.

R. Sulphate of quinine one to two grains  
Carbonate of soda four to five grains  
Sugar one scruple  
Mix, and divide into six powders. One,  
morning and evening, in serofulous oph-  
thalmia. *Ammon.*

POWDER OF SULPHATE OF QUININE AND  
TARTARIC ACID.

R. Tartaric acid                      fifteen grains  
Sulphate of quinine                      one grain and a-half

Mix, and add  
 Bicarbonate of soda      eighteen grains  
 Sugar                              half a drachm  
 Mix in water, for one dose.      In the apy-  
 rexia of intermittents.              *Meicu.*

POWDER OF SULPHATE OF QUININE AND MORPHIA.

R. Sulphate of quinine two to six grains  
morphia half to one grain  
Mix, and divide into four powders. *Magendie.*

COMPOUND POWDER OF SULPHATE OF  
QUININE.

R. Sulphate of quinine	half a grain
Powdered fox-glove	a quarter to one grain
Powdered fennel	six grains
Sugar of milk	ten grains

Mix. To be taken three or four times a-day, in the hectic fever of phthisis.

	<i>Gunther.</i>
R. Sulphate of quinine	three grains
Opium	one grain
Gum Arabic	
Sugar, each,	six grains
Make a powder. To be taken just before	
the paroxysm of malignant intermittents.	
	<i>Neuman.</i>

R. Sulphate of quinine	two grains
iron	one grain
Powdered fennel	one scruple
Oil of chamomile	one drop
Mix. To be taken every three hours, in obstinate intermittents.	<i>Phabus.</i>

R. Sulphate of quinine quarter of a grain  
Chocolate seven grains  
Sugar of milk two grains  
Mix. To be taken every three hours, in  
debility of the stomach. *Kopp.*

## PILLS OF SULPHATE OF QUININE.

R. Sulphate of quinine                    one ounce  
Powdered gum Arabic            two drachms  
Syrup    sufficient  
Mix the sulphate and gum, and beat with  
the syrup, into a mass, and divide into  
four hundred and eighty pills. *U. S. Ph.*  
Each pill contains one grain of the sulphate.  
R. Sulphate of quinine                    fifteen grains

Extract of chamomile fifteen grains  
Mix, and make six pills. To be taken  
during the apyrexia of intermittent fevers.  
*Elliotson.*

#### PILLS OF SULPHATE OF QUININE AND GENTIAN.

R. Sulphate of quinine one scruple  
Extract of gentian two scruples  
Mix, and make twenty pills.

#### COMPOUND PILLS OF SULPHATE OF QUININE.

R. Calomel six grains  
Powdered opium three grains  
Sulphate of quinine twelve grains  
Syrup sufficient  
Beat into mass, and divide into twelve pills. One, night and morning, as alternative.  
*Ellis.*

R. Blue pill mass  
Sulphate of quinine  
Powdered aloes, each, twelve grains  
Aromatic syrup of rhubarb sufficient  
Beat into mass, and divide into twelve pills. One, three or four times a-day. This, or the last combination is suited to the condition following bilious remittent or intermittent fevers.  
*Ellis.*

R. Sulphate of quinine twelve grains  
Extract of gentian one scruple  
Compound rhubarb pill two scruples  
Blue pill mass six grains  
Mix, and make twelve pills. One, three times a-day.  
*Ryan.*

R. Sulphate of quinine ten to fifteen grains  
Dry phosphoric acid two scruples  
Powdered mallow root four scruples  
Extract of centaury sufficient  
Mix, and make sixty pills. Three or four pills, two or three times a-day, in nervous debility with tendency to abortion.  
*Radiis.*

R. Powdered camphor one scruple  
Sulphate of quinine two scruples  
Pill aloes and myrrh one drachm and a-half  
Syrup of ginger sufficient  
Mix, and make forty pills. One, twice a-day.  
*Copland.*

#### SYRUP OF QUININE.

R. Sulphate of quinine thirty-two grains  
Distilled water two fl. drachms  
Alcoholized sulphuric acid six drops  
Dissolve, and add to  
Syrup sixteen fl. ounces  
*Par Cod.*

#### SYRUP OF QUININE AND COFFEE.

R. Ground roasted coffee four ounces  
Boiling water two pints four fl. ounces  
Make an infusion, let cool, and add  
Sugar four pounds  
Dissolve by means of a water-bath, and add

Sulphate of quinine one drachm  
Dissolve in a little water acidulated with sulphuric acid.  
*Bories.*

#### MIXTURE OF SULPHATE OF QUININE.

R. Sulphate of quinine twenty grains  
Sulphuric acid one drop  
White sugar one drachm  
Cinnamon water two fl. ounces and a-half

Mix. A teaspoonful every hour, in the apyrexia of intermittents.  
*Ellis.*

#### MIXTURE OF SULPHATE OF QUININE AND COFFEE.

R. Strong infusion of coffee five fl. ounces  
Sulphate of quinine twenty-four grains  
Sugar four drachms  
Mix. Dose, a tablespoonful. The coffee conceals the bitterness of the quinine.  
*Beasley.*

#### TINCTURE OF QUININE.

R. Sulphate of quinine one scruple  
Alcohol half a fl. ounce  
Dissolve. Dose, ten to twenty drops.  
*Ellis.*

#### COMPOUND TINCTURE OF QUININE.

R. Sulphate of quinine forty-eight grains  
Compound tincture of orange peel five and a-half fl. ounces  
Elixir of vitriol forty-five drops  
Mix. Dose, half a fl. drachm to two fl. drachms.  
*Copland.*

#### WINE OF QUININE.

R. Sulphate of quinine twelve grains  
Madeira wine two pints  
Dissolve. Dose, one or two fl. ounces.  
*Magendie.*

#### AROMATIC WINE OF QUININE.

R. Sulphate of quinine eighteen grains  
Citric acid fifteen grains  
Orange wine twenty-four fl. ounces  
Mix.  
*Collier.*

#### LINIMENT OF SULPHATE OF QUININE.

R. Sulphate of quinine half a drachm  
Tartar emetic six grains  
Extract of opium twelve grains  
Spirit of camphor eighteen fl. drachms  
Mix. Three fl. drachms to be rubbed on the epigastrium, three times a-day, in intermittents.  
*Schuster.*



## OINTMENT OF SULPHATE OF QUININE.

R. Sulphate of quinine      one ounce  
 Alcohol (.83)                      sufficient  
 Sulphuric acid, each,              sufficient  
 Lard                                  four ounces

Rub together. Half an ounce to be rubbed into the groins, in malignant intermittents. *Antonini.*

## PLASTER OF SULPHATE OF QUININE.

R. Simple plaster              six drachms  
 Resin                              two drachms

Melt together, and add  
 Sulphate of quinine      one drachm  
 Oil of cajeput  
 Camphor, each,              one scruple

Mix. To be applied to the epigastrium as a prophylactic in cholera. *Ammon.*

## ENEMA OF SULPHATE OF QUININE.

R. Sulphate of quinine      twelve to twenty grains  
 Flaxseed tea                  four fl. ounces

Mix. To be used every four to six hours. *Ellis.*

## DENTIFRICE OF SULPHATE OF QUININE.

R. Sulphate of quinine      four grains  
 Prepared coral              one ounce  
 Carmine lake                  eight grains  
 Essence of myrrh              two drops

Mix. *Pelletier.*

## GARGLE OF SULPHATE OF QUININE.

R. Sulphate of quinine      twelve grains  
    copper      sixteen grains  
 Elixir of vitriol              one fl. drachm  
 Water                              eight fl. ounces

Mix. To be used three or four times a-day, in obstinate sore throat. *Hartshorne.*

## QUININÆ SULPHO-TARTRAS.

## SULPHO-TARTRATE OF QUININE.

R. Sulphate of quinine      four drachms

Tartaric acid      four drachms and a-half  
 Distilled water      two fl. ounces

Dissolve. Half a fl. drachm to a drachm, in the course of the day. *Righini.*

## QUININÆ TANNAS.

## TANNATE OF QUININE.

R. Sulphate of quinine      one part  
 Water                              twenty parts  
 Diluted sulphuric acid      sufficient

Dissolve, filter, and add  
 Infusion of galls              sufficient  
 to precipitate; collect precipitate, wash and dry it. *Greck Ph.*

Found useful in intermittent neuralgia.

## QUININÆ TARTRAS.

## TARTRATE OF QUININE.

R. Quinine                          two parts  
 Water                              three parts

Mix, boil, and add  
 Tartaric acid                      sufficient  
 to dissolve the quinine; filter whilst hot, and let crystallize. *Par. Cod.*

## QUININÆ VALERIANAS.

## VALERIANATE OF QUININE.

R. Fresh precipitated quinine      three parts  
 Valerianic acid                      one part  
 Water                                  sixty parts

Mix; boil; filter while hot, and let crystallize; dry the crystals under 122° F. *Wettstein.*

Said to be more powerful than the sulphate, and not to cause nervous symptoms. It is given in solution, pill, enema, &c.

## R

## RESINA.

## RESIN.

*Resin*, or as it is vulgarly called *Rosin*, is the residuum after the distillation of the volatile oil from various species of the Pine tribe. In this state it is *Yellow resin*, or *Colophone*, which, when

melted and agitated with water, becomes of a whitish color, and forms *White resin*. Resin, when pure, is yellowish brown, inclining to olive or brown; it is solid, brittle, of a smooth, and shining fracture; of faint odor, and a somewhat acrid taste. It is principally used in medicine as an ingredient in plasters and ointments.

## HÆMOSTATIC POWDER.

R. Powdered resin four parts  
 gum Arabic  
 charcoal, each, one part

Mix. As an application to check external bleeding. *Guibourt.*

R. Resin two parts  
 Gum Arabic one part  
 Charcoal half a part

Pulverize well, and mix. Has proved useful in checking bleeding from wounds, &c. *Bonnefoux.*

## RESIN CERATE, OR BASILICON OINTMENT.

R. Resin five ounces  
 Lard eight ounces  
 Yellow wax two ounces

Melt together; strain through linen; and stir till cool. *U. S. Ph.*

As a stimulant application to blistered surfaces, burns, ulcers, &c.

## COMPOUND RESIN CERATE.

R. Resin  
 Suet  
 Yellow wax, each, one pound  
 Turpentine half a pound  
 Flaxseed oil half a pint

Melt together; strain through linen, and stir till cold. *U. S. Ph.*

Known as *Deshler's Salve*; is rather more stimulating than the last.

## RESIN, OR ADHESIVE PLASTER.

R. Powdered resin half a pound  
 Lead plaster three pounds

Melt the plaster by a gentle heat, and add the resin, mixing well. *U. S. Ph.*

## PLASTER OF ST. ANDREW.

R. White resin eight ounces  
 Elemi two ounces

Venice turpentine  
 Oil of bay laurel, each, one ounce  
 Melt together, and strain. An adhesive plaster. *Foy.*

## RHEUM.

## RHUBARB.

Rhubarb is the product of one or more species of *Rheum*, but of which, is not known with any certainty. All that is clearly ascertained is, that they grow in the deserts of Tartary.

*Sex. Syst.* Enneand. trigyn. *Nat. Syst.* Polygonacea.

*U. S. Dispens.* 587. *Griffith, Med. Bot.* 539.

Two kinds of Rhubarb are usually found in commerce, the Russian or Turkey, and the Chinese, the first of which is the most valuable, but the latter is the most generally used, and when

good, fulfils all that is required. They both are purgatives, with some tonic and astringent powers, and are much used in various forms of disease. The dose, in substance, to produce a full effect, is from twenty to thirty grains. They are given in a vast variety of forms.

## POWDER OF RHUBARB AND MAGNESIA.

R. Powdered rhubarb one scruple  
 Magnesia ten grains

Mix. To be given in syrup, or sugar and water. *Ellis.*

## POWDER OF RHUBARB AND CHALK.

R. Powdered rhubarb fifteen grains  
 Compound chalk

powder twenty-four grains  
 Mix. In the evening, in cardialgia. *Foy.*

## POWDER OF RHUBARB AND SULPHATE OF POTASSA.

R. Powdered rhubarb one drachm  
 sulphate of

potassa two drachms  
 Mix. Ten grains to a drachm, every morning. *Fordyce.*

## COMPOUND POWDERS OF RHUBARB.

R. Magnesia  
 Cremor tartar  
 Powdered rhubarb  
 chamomile

Oleo-sacch. of fennel, each, half an ounce

Mix A teaspoonful, twice or thrice a-day, in obstructions of the abdominal viscera. *Selle.*

R. Powdered rhubarb thirty grains  
 sulphate of potassa  
 chamomile, each, one drachm

Mix, and divide into six powders. One, twice a-day, in dyspepsia with torpor of the bowels. *Ellis.*

R. Powdered rhubarb four ounces  
 Magnesia one pound

Powdered ginger two ounces  
 Mix well, and keep in well-closed bottles. *Ed. Ph.*

A good antacid laxative. Dose, five grains to a drachm, according to age.

## ROASTED RHUBARB.

R. Coarsely powdered rhubarb at will  
 Place it in a shallow iron dish, heat regularly, so as to seorch the powder, which should be so constantly stirred, that the influence of the heat should be uniform throughout; when the color has changed to brown, the process is to be stopped, and the rhubarb reduced to fine powder, for use. *W. Procter.*

R. Powdered rhubarb at will

Treat in an iron vessel, constantly stirring, till it becomes almost black, then smother it in a covered jar. Dose, five to ten grains, as an astringent in diarrhœa.

*Hoblyn.*

#### PILLS OF RHUBARB.

R. Powdered rhubarb six drachms  
Soap two drachms

Beat them with water, so as to form a mass, and divide into one hundred and twenty pills. *U. S. Ph.*

Each pill contains three grains.

#### COMPOUND RHUBARB PILLS.

R. Powdered rhubarb one ounce  
aloes six drachms  
myrrh half an ounce

Oil of peppermint half a fl. drachm

Syrup of orange peel sufficient

Beat together into mass, and divide into two hundred and forty pills. *U. S. Ph.*

A warm, tonic laxative, useful in costiveness with debility of the stomach. Dose, two to four a-day.

R. Powdered rhubarb one drachm and  
a-half

Sulphate of iron half a drachm

Soap two scruples

Distilled water sufficient

Beat into mass, and divide into forty pills.

In similar cases as last, three or four to be taken at bedtime. *Griffitts.*

#### PILLS OF RHUBARB AND IPECACUANHA.

R. Powdered rhubarb one scruple  
ipecacuanha ten grains

Opium three grains

Oil of cinnamon five drops

Gum Arabic sufficient

Triturate together, and divide into ten pills.

One to be given every two or three hours, in dysentery, to relieve tormina and tenesmus. *Chapman.*

#### PILLS OF RHUBARB AND CARAWAY.

R. Powdered rhubarb two drachms

Syrup one fl. drachm

Oil of caraway ten minims

Mix, and divide into forty pills. *Kitchener.*

#### PILLS OF RHUBARB AND CHAMOMILE.

R. Powdered rhubarb

aloes

myrrh

Extract of chamomile, each, one drachm

Oil of chamomile twelve drops

Mix, and divide into sixty pills.

These are known as *Speediman's pills.*  
*Beasley.*

R. Powdered rhubarb  
ginger, each, half a drachm

Extract of chamomile one drachm  
Beat together, and divide into thirty pills; three to be taken before each meal. Have been recommended in dyspepsia and chlorosis. *A. T. Thomson.*

#### PILLS OF RHUBARB AND SODA.

R. Powdered rhubarb

Carbonate of soda

Extract of gen-

tian, each, one drachm and a-half

Mix, and make sixty pills. *Guy's Hosp.*

R. Powdered rhubarb

Dried carbonate of soda

Extract of gentian, each, one scruple

Calomel three grains

Mix, and make twenty pills. Two, occasionally, in dyspepsia. *Ellis.*

#### PILLS OF RHUBARB AND OX GALL.

R. Inspissated ox gall

Gum ammoniac

Powdered rhubarb equal parts

Mix, and form pills of two grains each.

*Leipsic Ph.*

In constipation, deficiency of bile, &c.

#### LOZENGES OF RHUBARB.

R. Powdered rhubarb

Cremor tartar, each, two drachms

Fresh orange peel half a drachm

Sugar, dissolved in

Orange-flower water four ounces

Mix, and make lozenges of eighteen grains. *Beral.*

#### SUPPOSITORY OF RHUBARB.

R. Extract of rhubarb half a drachm

Soap three drachms

Powdered rhubarb sufficient

Mix, and make three suppositories.

*Radiis.*

#### ELECTUARY OF RHUBARB.

R. Powdered rhubarb

one drachm and a-half

Sulphate of potassa one drachm

Cremor tartar half an ounce

Pulp of tamarinds two ounces

Mix. A teaspoonful. *Saunders.*

#### INFUSION OF RHUBARB.

R. Bruised rhubarb one drachm

Boiling water eight fl. ounces

Infuse for two hours, and strain.

*Guibourt.*

One or two fl. ounces, every three or four hours, till it operates.

R. Bruised rhubarb one ounce

Boiling water eighteen fl. ounces

Infuse for twelve hours, in a covered vessel; add



Spirit of cinnamon two fl. ounces  
and strain. Dose, as above. *Ed. Ph.*

#### ALKALINE INFUSION OF RHUBARB.

R. Bruised rhubarb two drachms  
Carbonate of potassa one drachm  
Boiling water half a pint  
Infuse for four hours, strain, and add  
Tincture of cinnamon half a fl. ounce  
*Copland.*

#### EXTRACT OF RHUBARB.

R. Powdered rhubarb fifteen ounces  
Proof spirit one pint  
Distilled water seven pints  
Macerate for four days by a gentle heat ;  
strain ; set aside to settle ; decant, and  
evaporate to proper consistence. *Dub. Ph.*  
Dose, ten to thirty grains.

#### FLUID EXTRACT OF RHUBARB.

R. Rhubarb eight ounces  
Sugar five ounces  
Diluted alcohol two pints  
Powder the rhubarb coarsely, and mix it  
with its bulk of coarse sand ; moisten the  
mixture with sufficient of the diluted alco-  
hol to form a pasty mass ; let stand until  
the particles have absorbed, and are swol-  
len by the fluid. Then introduce into a  
displacer, and shake till uniformly settled,  
and cover with cloth or paper ; pour on  
the rest of the alcohol, until the product  
has but little odor or taste of the root.  
The tincture thus obtained, is to be eva-  
porated in a water-bath to five and a-half  
fl. ounces ; the sugar added ; when the  
whole should measure eight fl. ounces.  
Dose, fifteen drops to half a drachm.

*W. Procter.*

#### SYRUP OF RHUBARB.

R. Rhubarb, bruised, two ounces  
Boiling water one pint  
Macerate for twenty-four hours, and  
strain, then add  
Sugar two pounds  
and make syrup. *U. S. Ph.*

Mild cathartic. Dose, for young children, one  
to two fl. drachms.

#### AROMATIC SYRUP OF RHUBARB.

R. Rhubarb, bruised,  
two ounces and a-half  
Cloves, bruised,  
Cinnamon, bruised, each, half an ounce  
Nutmeg, bruised, two drachms  
Diluted alcohol two pints  
Macerate for fourteen days, and strain ;  
evaporate on water-bath to one pint, and  
add

Syrup six pints  
previously heated. *U. S. Ph.*

Warm laxative in cases of children. Dose,  
one fl. drachm, in bowel complaints, to be re-  
peated every two hours.

#### SYRUP OF RHUBARB AND SENNA.

R. Bruised rhubarb one ounce  
Senna two ounces  
Fennel seed  
Bruised cinnamon, each, two drachms  
Boiling water two pints and a-half  
Macerate for twelve hours, strain, and  
add  
Sugar three pounds  
Make syrup. *Ed. Ph.*

#### TINCTURE OF RHUBARB.

R. Rhubarb, bruised, three ounces  
Cardamoms, bruised, half an ounce  
Diluted alcohol two pints  
Macerate for fourteen days, express, and  
filter. *U. S. Ph.*

Dose, as purgative, half to one fl. ounce ; as  
stomachic and tonic, one to two fl. drachms.

#### TINCTURE OF RHUBARB AND GENTIAN.

R. Rhubarb, bruised, two ounces  
Gentian, bruised half an ounce  
Diluted alcohol two pints  
*U. S. Ph.*

Macerate for fourteen days, express, and filter.  
In flatulent colic, &c. Dose, as above.

R. Rhubarb, bruised two ounces  
Gentian, bruised, half an ounce  
Virginia snake-  
root one drachm and a-half  
Diluted alcohol two pints  
Macerate for three days, express, and filter.  
*Van Mons.*

#### TINCTURE OF RHUBARB AND ALOES.

R. Rhubarb, bruised, ten drachms  
Aloes, powdered, six drachms  
Cardamoms, bruised, half an ounce  
Diluted alcohol two pints  
Macerate for fourteen days, express, and  
filter. *U. S. Ph.*

This was formerly known as *Elixir sacrum*,  
and was much used.

#### TINCTURE OF RHUBARB AND SENNA.

R. Rhubarb, bruised, one ounce  
Senna two drachms  
Coriander, bruised,  
Fennel, bruised, each, one drachm  
Red saunders, rasped, two drachms  
Saffron  
Extract of liquorice, each, half a drachm  
Raisins, stoned, half a pound  
Diluted alcohol three pints

Macerate for fourteen days, express, and filter. *U. S. Ph.*

Well known and much used under the name of *Warner's gout cordial*, as a stomachic and slight purgative. Dose, from half to two fl. ounces.

#### WARNER'S CORDIAL.

R. Contused rhubarb one ounce  
Senna half an ounce  
Saffron one drachm  
Fennel seed  
Coriander, each, two drachms  
Extract of liquorice four drachms  
Raisins, pounded, one pound  
Brandy three pints

Mix, and macerate for a week, and strain. Dose, half a wineglassful, in atonic gout, with flatulence. *Chapman.*

#### TINCTURE OF RHUBARB AND ANISEED.

R. Rhubarb, bruised,  
Liquorice root, bruised, each, two ounces  
Aniseed, bruised,  
Sugar, each, one ounce  
Diluted alcohol two pints

Macerate for fourteen days, express, and filter. *Copland.*

Used as the tincture.

#### ALKALINE TINCTURE OF RHUBARB.

R. Rhubarb, bruised, one ounce and a-half  
Carbonate of potassa three drachms  
Boiling water twelve fl. ounces  
Macerate for twelve hours, strain, and add  
Tincture of cinnamon two fl. ounces  
*Prus. Ph.*

As a mild purgative, where there is acidity of stomach, in doses of half to two fl. ounces.

#### WINE OF RHUBARB.

R. Rhubarb, bruised, two ounces  
Canella, bruised, one drachm  
Wine one pint  
Macerate for fourteen days, occasionally agitating, express, and filter. *U. S. Ph.*

A warm, cordial laxative, in doses of one to four fl. drachms.

R. Rhubarb, bruised, two ounces and a-half  
Cardamoms, bruised, half an ounce  
Saffron two drachms  
Wine two pints  
Alcohol eight fl. ounces

Macerate for ten days, express, and filter. *Par. Cod.*

Used as the last.

#### WINE OF RHUBARB AND GENTIAN.

R. Rhubarb, bruised, one ounce  
Gentian, bruised, two drachms  
Canella one drachm

Wine one pint  
Macerate for three days, express, and filter. *Swed. Ph.*

#### 'COMPOUND WINE OF RHUBARB.

R. Rhubarb, bruised,  
Orange peel, bruised, each, half an ounce

Wine two pints  
Macerate for twenty hours, strain, and add  
Oleo-sacch. of mace one ounce  
Hoffmann's elixir one drachm  
As a stomachic, a tablespoonful three times a-day. *Phabus.*

#### RHUBARB MIXTURE.

R. Bruised rhubarb one drachm  
fennel one scruple  
Sulphate of magnesia half an ounce  
Manna one ounce  
Boiling water six fl. ounces  
Infuse and strain, when cold. As a mild purgative; one-half to be taken at a dose. *Radius.*

R. Infusion of rhubarb one fl. drachm and a-half  
Spirit of hartshorn two fl. scruples  
Cinnamon water one fl. ounce and a-half  
Syrup of opium six fl. drachms  
Mix. A teaspoonful every two hours, in the chronic diarrhoea of young children. *Vogt.*

R. Powdered rhubarb one drachm  
Carbonate of soda two drachms  
Tincture of orange peel one fl. ounce and a-half  
Decoction of liquorice ten fl. ounces and a-half  
Mix. Dose, half a fl. ounce to one fl. ounce, three times a-day. *Guy's Hosp.*

R. Powdered rhubarb one drachm  
Magnesia one drachm and a-half  
Powdered ginger one scruple  
Peppermint water one pint  
Mix. Dose, half a fl. ounce. *Gregory.*

R. Powdered rhubarb two scruples  
Tartrate of potassa one ounce  
Peppermint water six fl. ounces  
Tincture of senna  
Syrup of ginger, each, half a fl. ounce  
Mix. Dose, one fl. ounce. *Brande.*

#### RHEAS.

##### RED POPPY.

The *Papaver rhœas*, or Red Poppy, is a native of Europe, where it is found in great abundance in cultivated grounds, and has become naturalized in many places in this country.

*Sex. Syst.* Polyand. monog. *Nat. Syst.* Papaveraceae.

*Linn. Sp. Pl.* 726. *Woodville, Med. Bot.* 387.

The parts used are the petals; these have a mucilaginous, somewhat bitter taste, and a narcotic smell, which latter is lost on drying. Their action on the system is slight, but they are used in Europe in the preparation of a syrup, prescribed as an anodyne in the catarrhal affections of children.

R. Red poppy petals                      one pound  
Water    one pint

Heat the water on a water-bath, gradually add the petals, remove from the fire, macerate for twelve hours, express, and strain, and add

Sugar    two pounds and a-half  
And make syrup.                      *Lond. Ph.*

#### INFUSION OF RED POPPY.

R. Red poppy petals                      one drachm  
Boiling water                                      one pint  
Infuse and strain. To be taken freely, in catarrhal affections.                      *Cottreave.*

#### COMPOUND INFUSION OF RED POPPY.

R. Red poppy petals                      two ounces  
Diluted sulphuric acid                      fifteen drops  
Sugar    two ounces  
Decoction of barley                      one pint  
Infuse, and strain. Used as above.                      *St. Marie.*

### ROSA CANINA.

#### DOG ROSE.

This shrub is a native of Europe, growing in hedges and thickets.

*Sex. Syst.* Icosand. polyg. *Nat. Syst.* Rosaceae.

*Linn. Sp. Pl.* 704. *Woodville, Med. Bot.* 493.

The fruit, which is the officinal portion, is smooth, oval, red, and of a pleasant acidulous taste. It is principally used in confection.

#### CONFECTION OF DOG ROSE.

R. Pulp of fruit of dog rose                      one pound  
Sugar    twenty ounces  
Heat the pulp gently and gradually, add the sugar, and rub together till well mixed.                      *Lond. Ph.*

Has been advised in diarrhoea and dysentery, as an astringent, but is principally used as a pill basis.

### ROSA CENTIFOLIA.

#### HUNDRED-LEAVED ROSE.

This species, of which there are innumerable varieties, is cultivated in every garden, but its native country is unknown, though probably it is from Persia.

The petals are the only part used; these are fragrant, and have an acidulous, somewhat bit-

terish taste. They are slightly laxative, but are principally used for the making of rose water.

#### ROSE WATER.

R. Fresh hundred-leaved  
rose petals                                      eight pounds  
Water    two gallons  
Mix, and distil one gallon.                      *U. S. Ph.*

#### OINTMENT OF ROSE WATER.

R. Rose water  
Oil of almonds, each,                      two fl. ounces  
Spermaceti                                      half an ounce  
White wax                                      one drachm  
Melt together, on a water-bath, the last three ingredients, and stir in the rose water till cold.                      *U. S. Ph.*

Much used, under the name of *Cold cream*, as a cooling application to irritated surfaces.

#### ROSE LOZENGES.

R. Powdered sugar  
Rose water, each,                                      six ounces  
Evaporate gently, to a thick syrup, and add

Coarsely powdered sugar                      one pound  
Oil of roses                                      one drachm and a-half  
When dissolved, pour in drops, on a cold, oiled, marble slab, and dry.                      *Cottreave.*

#### COLLUTORY OF ROSE WATER.

R. Rose water                                      three fl. ounces  
Cream  
White of egg  
Syrup of violets, each,                      one fl. ounce  
Mix.    *St. Marie.*

#### OIL OF ROSES.

R. Fresh rose leaves                                      at will  
Water    sufficient  
to moisten the leaves; distil, and collect the oil that floats on the product.                      *Guibourt.*

#### ESSENCE OF ROSES.

R. Pounded rose leaves  
Alcohol (.874), each,                                      ten parts  
Infuse for twenty-four hours, by a gentle heat, and distil.                      *Taddei.*

#### ROSE OIL.

R. Pounded rose leaves                      one part  
Olive oil    four parts  
Digest with gentle heat for four days, express, and strain; repeat process with fresh leaves, a second and third time; separate the water, and filter.                      *Soubeyran.*

As an application to chilblains and irritated surfaces.

### ROSA GALLICA.

#### RED ROSE.

This species is a native of the south of Eu-



rope, and is generally cultivated in our gardens. The varieties are very numerous.

Linn. Sp. Pl. 704. Griffith, Med. Bot. 273.

The parts used in medicine are the petals of the unexpanded flowers, deprived of their white claws, and dried. In this state they are of a purplish red color; of an agreeable odor, and bitterish, astringent taste. They have mild astringent properties, but are more used as a vehicle, than for their own powers.

#### CONFECTION OF ROSES.

R. Red roses, in powder      four ounces  
Powdered sugar      thirty ounces  
Clarified honey      six ounces  
Rose water      eight fl. ounces

Rub the roses with the rose water, at a boiling heat; add gradually the sugar and honey, and beat together. *U. S. Ph.*

Principally used as a pill basis.

#### ACID INFUSION OF ROSES.

R. Red roses      half an ounce  
Boiling water      forty-eight fl. ounces  
Diluted sulphuric acid      three fl. drachms  
Digest in a glass vessel for half an hour; express and strain, and add  
Sugar      one ounce and a-half  
As a cooling drink, mixed with water.

*Dub. Ph.*

#### HONEY OF ROSES.

R. Red roses      two ounces  
Clarified honey      two pints  
Boiling water      a pint and a-half  
Macerate the roses in the water for two hours, and strain; add the honey, and evaporate to proper consistence.

*U. S. Ph.*

As an addition to gargles.

#### ELECTUARY OF ROSES.

R. Confection of roses      sixteen parts  
Syrup of tolu      four parts  
poppy      one part  
Mix. Used as an astringent in bowel affections, in doses of a teaspoonful. *Foy.*

#### TINCTURE OF ROSES.

R. Red roses      five ounces  
Alcohol      two fl. ounces  
Rose water      eight fl. ounces  
Digest for four days, express, and filter; digest residuum with half a pint of alcohol for three days; express, filter, and mix the liquors. *Squire.*

Used principally as a perfume.

#### WINE OF ROSES.

R. Red roses      one part  
Red wine      sixteen parts  
Infuse for half an hour, and strain. As an application to indolent ulcers. *Beral.*

#### COMPOUND VINEGAR OF ROSES.

R. Red roses      one ounce and a half  
Sumach leaves      one ounce  
Wine of quinces      four fl. ounces  
Vinegar of red wine      ten fl. ounces  
Macerate for ten days, express, and filter. As an application to contusions, and as a styptic. *Van Mons.*

#### SYRUP OF RED ROSES.

R. Red roses      two ounces  
Boiling water      one pint  
Sugar      twenty ounces  
Macerate the rose leaves in the water for twelve hours, strain, evaporate, add sugar, and form syrup. *Ed. Ph.*

### ROSMARINUS.

#### ROSEMARY.

This is the *Rosmarinus officinalis*, a small evergreen shrub, a native of the south of Europe, and generally cultivated in gardens elsewhere.

*Sex. Syst.* Diand. monog. *Nat. Syst.* Lamiaceae.

Linn. Sp. Pl. 33. Griffith, Med. Bot. 507.

The officinal portions are the flowering extremities. These have a fragrant odor, and a bitter, pungent taste. Rosemary is stimulant and carminative, but is principally employed as an aromatic addition to lotions and liniments, as an ingredient in articles of perfumery.

#### AROMATIC BATH.

R. Rosemary  
Thyme  
Sage  
Origanum  
Mint, each,      half a pound  
Boiling water      six pints  
Macerate for twelve hours, strain, and add  
Essence of soap      four ounces  
Muriate of ammonia      two ounces  
Pour the whole into water sufficient for a bath. *Foy.*

In chronic rheumatism, cutaneous affections, dyspepsia, &c.

#### AROMATIC FOMENTATION.

R. Rosemary      half an ounce  
Red wine  
Water, each,      three fl. ounces  
Infuse, and express. As a fomentation in contusions. *Augustin.*

#### AROMATIC VINEGAR.

R. Rosemary  
Sage, each,      one ounce  
Lavender      one ounce and a-half  
Cloves      half a drachm  
Vinegar      two pints

Infuse for eight days, and strain. As a lotion in contusions, strains, &c.

*Spielman.*

#### TINCTURE OF ROSEMARY.

R. Rosemary one part  
Spirit of rosemary four parts  
Macerate, express, and filter.

*Brunsw. Ph.*

#### OIL OF ROSEMARY.

R. Rosemary at will  
Water sufficient  
Distil, and collect the oil that floats on the product. Principally used in stimulating liniments, but sometimes given as carminative in doses of two or three drops.

*U. S. Ph.*

#### ROSEMARY OIL.

R. Rosemary one part  
Olive oil three parts  
Heat till the water has evaporated, express, and strain. As a stimulating application.

*Span. Ph.*

#### SPIRIT OF ROSEMARY.

R. Oil of rosemary two drachms  
Alcohol one gallon  
Water one pint  
Mix, and distil one gallon, by a slow fire.

*U. S. Ph.*

As an ingredient in lotions, and liniments, &c.

#### HUNGARY WATER.

R. Rosemary three parts  
Lavender one part  
Diluted alcohol six parts  
Water twelve parts  
Mix, and distil three-fourths. Used as a perfume.

*Van Mons.*

### RUBIA.

#### MADDER.

The *Rubia tinctorum* or Madder is a perennial plant, native of the south of Europe, and extensively cultivated in many countries for the sake of its roots, which are used in dying reds.

*Sex. Syst.* Tetrand. monog. *Nat. Syst.* Rubiaceæ.

Linn. Sp. Pl. 158. Griffith, Med. Bot. 382.

The root is the officinal portion, and as found in commerce, is in long, cylindrical pieces, about as thick as a quill, of a deep red or brown color. It has a peculiar and unpleasant odor, and a bitterish, astringent taste. It was much used formerly as a diuretic, but is at present but seldom prescribed, except as an emmenagogue, for which purpose it is highly spoken of by many practitioners.

#### COMPOUND POWDER OF MADDER.

R. Powdered madder  
sugar, each, two drachms

#### Powdered sulphate of

potassa half an ounce  
Mix well. Dose, ten grains to a scruple, in rachitis. *Radiis.*

#### DECOCTION OF MADDER.

R. Powdered madder one ounce  
Boiling water one pint  
Simmer for fifteen minutes, and add  
Bruised cloves one drachm  
When cool, strain. A wineglassful every three hours, a short time previous to the expected time of the menstrual discharge.

*Deuces.*

R. Powdered madder one ounce  
mace two drachms  
Water one pint and a-half  
Boil down to one pint, strain, and add  
Aromatic tincture two fl. drachms  
Syrup of citric acid two fl. ounces  
Dose, three fl. ounces, three or four times a-day, in amenorrhœa, chlorosis, &c.

*Svediaur.*

R. Powdered madder half an ounce  
hops one drachm  
English walnut leaves three  
Water two pints  
Boil down to a pint and a-half, strain, and add

Tincture of tartrate  
of iron a teaspoonful  
Advised in scrofula, in doses of two ounces, night and morning. *St. Marie.*

### RUBUS TRIVIALIS.

#### DEWBERRY.

### RUBUS VILLOSUS.

#### BLACKBERRY.

These two species of shrubby plants are very common in the United States, and are well known for their pleasant fruit.

*Sex. Syst.* Icosand. polyg. *Nat. Syst.* Rosacææ.  
Torrey and Gray, i. 454, 455. Griffith, Med. Bot. 275, 276.

The officinal portions are the roots; these are identical in their effects; they have a very faint odor, and a bitter, astringent taste. The smaller are to be preferred. They are efficient, but mild astringents, and have been found very useful in a relaxed condition of the bowels.

#### DECOCTION OF BLACKBERRY ROOT.

R. Small roots of blackberry one ounce  
Water one pint and a-half  
Boil down to one pint, and strain. Dose, one or two fl. ounces, three or four times a-day, in diarrhœa, &c.

SYRUP OF BLACKBERRY.

R. Juice of blackberries twenty ounces  
 Sugar three pounds  
 Boil, and strain. Said to be very useful  
 in dysentery.

RUTA.

RUE.

The only species recognized in medicine is the *Ruta graveolens*, a small shrub with glaucous leaves and yellow flowers, a native of the south of Europe, but generally cultivated in gardens.

*Sex. Syst.* Decand. monog. *Nat. Syst.* Rutaceæ.

Linn. Sp. Pl. 523. Griffith, Med. Bot. 189.

The leaves are the part usually employed; they have a nauseous odor, and a bitter, acrid, disagreeable taste. They are stimulant and antispasmodic, and have been much used as an emmenagogue and vermifuge. The dose of the powder is from ten to twenty grains, two or three times a-day.

CONFECTION OF RUE.

R. Dried rue  
 Caraway  
 Laurel berries, each, one ounce and  
 a-half  
 Sagapenum half an ounce  
 Black pepper two drachms  
 Clarified honey sixteen ounces  
 Mix. *Dub. Ph.*

It is used as antispasmodic, in the form of an

enema made with a scruple to a drachm, mixed with half a pint of warm, mucilaginous fluid.

EXTRACT OF RUE.

R. Dried rue two pounds  
 Alcohol (.927) seven pints  
 Exhaust the rue by the process of displacement, distil the tincture, and evaporate the residue. *Wert. Ph.*

MIXTURE OF RUE AND SQUILL.

R. Juice of rue leaves one ounce  
 Oxymel of squill half an ounce  
 Mix. A teaspoonful occasionally, in hysterical affections. *Pierquin.*

SYRUP OF RUE.

R. Coarsely powdered sugar fifteen ounces  
 Tincture of rue two fl. ounces  
 Distilled water seven fl. ounces  
 Dissolve, and strain. *Beral.*

TINCTURE OF RUE.

R. Expressed juice of rue  
 Alcohol (.847), each, four fl. ounces  
 Mix, and filter at the end of twenty-four hours. *Beral.*

MIXTURE OF RUE.

R. Rue  
 Savin  
 Wormwood, each, three drachms  
 Boiling water one pint  
 Infuse, strain, and add  
 Castor oil half an ounce  
 As an injection, in cases of ascariides. *Radius.*

S

SABADILLA.

CEVADILLA.

This article is the seed of one or more plants belonging to the natural order of Melanthaceæ; the U. S. Ph. attributes it to *Veratrum sabadilla*, and the Lond. Ph. to *Helonias (Asagragæ) officinale*.

The Cevadilla of the shops consists of follicles, seeds, &c. The first are ovate, oblong, acuminate, of a pale, yellowish-brown color, and a thin, papery consistence. The seeds are small, curved, acuminate, shining, wrinkled, and of a blackish-brown color. They have very little odor, but their taste is bitter and acrid. These seeds are a drastic emeto-cathartic, and have been used as an anthelmintic, and in nervous diseases, &c.; but are principally used in the preparation of veratria. The dose is from five to ten grains, in powder; but it should always be given with much caution.

COMPOUND POWDER OF CEVADILLA.

R. Powdered cevadilla two grains  
 Sulphate of iron one grain  
 Powdered semen contra  
 Magnesia, each, half a scruple  
 Mix. To be given four times a-day, in cases of tenia. *Radius.*

TINCTURE OF CEVADILLA.

R. Seeds of cevadilla, bruised, at will  
 Alcohol sufficient  
 to cover them; digest for ten days, and filter. As a lotion in rheumatism. *Turnbull.*

EXTRACT OF CEVADILLA.

R. Tincture of cevadilla at will  
 Evaporate to proper consistence. Dose,



one-sixth of a grain, as a substitute for veratria in tie douloureux, &c. *Turnbull.*

#### OINTMENT OF CEVADILLA.

R. Powdered cevadilla four ounces  
mustard  
pellitory, each, two ounces  
Lard thirty-two ounces  
Mix well. To destroy lice. *Cod. Par.*

#### OINTMENT OF EXTRACT OF CEVADILLA.

R. Extract of cevadilla fifteen to twenty grains  
Lard one ounce  
Mix well. As a substitute for veratria ointment, but not as efficient. *Turnbull.*

#### CAPUCHIN POWDER.

R. Powdered cevadilla  
stavesacre  
parsley seed  
tobacco equal parts  
Mix. To destroy vermin in the hair.  
*Nieman.*

### SABBATIA.

#### AMERICAN CENTAURY.

The *Sabbatia angularis* is a small annual, or biennial, plant, growing in abundance in various parts of the United States, having numerous rose-colored flowers, which appear in July and August.

*Sex. Syst.* Pentand. monog. *Nat. Syst.* Gentianaceæ.

Pursh, i. 137. Griffith, Med. Bot. 458.

The whole plant is official. It is a pure bitter, with no astringency or aroma.

#### INFUSION OF AMERICAN CENTAURY.

R. American centaurry one ounce  
Boiling water one pint  
Infuse; when cool, strain. Dose, a wineglassful, every two hours, as a tonic.  
*Chapman.*

#### TINCTURE OF AMERICAN CENTAURY.

R. American centaurry one part  
Alcohol four parts  
Digest for four days, express, and filter.  
Dose, a fl. drachm to two fl. drachms.

#### EXTRACT OF AMERICAN CENTAURY.

R. American centaurry one part  
Alcohol four parts  
Subject the herb to two or three infusions in the alcohol; heat to boiling; unite the tinctures, distil off the alcohol, and evaporate the residue.

### SABINA.

#### SAVINE.

Savine is the tops of *Juniperus sabina*, a small tree or shrub, a native of the south of Europe, somewhat resembling the red cedar in its foliage.

*Sex. Syst.* Diœcia monadelph. *Nat. Syst.* Pinaceæ.

Linn. Sp. Pl. 1472. Griffith, Med. Bot. 608.

The tips of the branches are official. These when dried have a bitter, acrid taste, and an unpleasant odor. Savine is an active stimulant, acting powerfully on the skin and uterus. It also acts as an external irritant. The dose of the powder is from five to fifteen grains, three or four times a-day.

#### POWDER OF SAVINE AND GINGER.

R. Powdered savine  
ginger, each, one drachm  
Sulphate of potassa two drachms  
Mix, and divide into six powders. One, to be taken twice a-day, in amenorrhœa.  
*Ellis.*

#### POWDER OF SAVINE AND SPANISH FLIES.

R. Powdered savine one drachm  
Spanish flies two grains  
Mix, and divide into four powders. One, at bedtime, in amenorrhœa.  
*Ellis.*

#### POWDER OF SAVINE AND VERDIGRIS.

R. Powdered savine  
verdigris equal parts  
Mix. As an escharotic to venereal warts.  
*J. Hunter.*

#### POWDER OF SAVINE AND PINKROOT.

R. Powdered pinkroot  
senna, each, two scruples  
savine twelve grains  
Mix, and divide into six powders. Anthelmintic. One, every morning, till three are taken, then a dose of castor oil. If required, repeat.  
*Ellis.*

#### PILLS OF SAVINE.

R. Extract of savine half an ounce  
Powdered savine two drachms  
Oil of savine sufficient  
Mix, and form pills of two grains each. Four, three times a-day, as an emmenagogue.  
*Nieman.*

#### EXTRACT OF SAVINE.

R. Powdered savine two pounds  
Alcohol seven pints  
Exhaust the savine by the process of displacement; distil off the alcohol, and evaporate the residue.  
*Par. Cod.*

## OIL OF SAVINE.

R. Savine at will  
 Water sufficient  
 Distil, and collect the oil that floats on the product. *Guibourt.*

A powerful stimulant, emmenagogue, and rubefacient. Dose, two to five drops.

## INFUSION OF SAVINE.

R. Savine one drachm  
 Boiling water eight fl. ounces  
 Infuse for half an hour, and strain. Dose, half a fl. ounce. *Pereira.*

R. Savine one drachm  
 Camphor six grains  
 Boiling water five fl. ounces  
 Infuse, and strain. *Horn.*

## TINCTURE OF SAVINE.

R. Savine one part  
 Alcohol four parts  
 Macerate for ten days, and filter. Dose, ten to fifteen drops. *Soubeyran.*

## COMPOUND TINCTURE OF SAVINE.

R. Extract of savine one ounce  
 Tincture of castor sixteen fl. ounces  
 Tincture of myrrh eight fl. ounces  
 Digest till dissolved. As an emmenagogue. *Lond. Ph., 1788.*

R. Compound tincture of  
 savine one fl. ounce  
 Tincture of black hellebore  
 half a fl. ounce  
 castor two fl. drachms  
 Mix. Forty drops, three times a-day. *Ellis.*

## SAVINE CERATE.

R. Powdered savine two ounces  
 Resin cerate one pound  
 Melt the cerate, and mix in the savine. *U. S. Ph.*

As a dressing to keep up the discharge of blisters, &c.

## SAVINE OINTMENT.

R. Powdered savine  
 Lard equal parts  
 Mix. As an application to venereal warts. *Radius.*

## SACCHARUM.

## SUGAR.

Sugar is procured from the *Saccharum officinarum* and other species, and is used in several forms, as molasses, brown, and refined sugar, the latter of which only is recognized in the U. S. Pharm.

## SYRUP.

R. Sugar two pounds and a-half

## Water

one pint

Dissolve the sugar in the water, by the aid of heat, remove any scum that may form, and strain while hot. *U. S. Ph.*

## CAMEL OR BURNT SUGAR.

R. Sugar at will  
 Place in a shallow vessel, and heat over a gentle fire, till it assumes a dark brown color. Used as a coloring for spirits, &c. *Gray.*

## SAGAPENUM.

## SAGAPENUM.

This is a gum resin, derived most probably from some plant belonging to the *Apiaceæ*. It is in irregular masses composed of cohering fragments, of a yellowish brown, olive, or reddish yellow color, of a waxy consistence; of a somewhat alliaceous odor, and a pungent, bitterish, unpleasant taste. It is a mild stimulant, somewhat resembling *assafetida* in its properties, but inferior to it. It has been used as an emmenagogue and antispasmodic, but it is now seldom prescribed internally, but is still employed as an external application as a descutient.

## COMPOUND SAGAPENUM PILLS.

R. Sagapenum one ounce  
 Aloes half a drachm  
 Syrup of ginger sufficient  
 Beat together. Dose, ten to thirty grains. *Lond. Ph.*

As a stimulant, antispasmodic laxative, in flatulent colic, &c.

## SAGO.

## SAGO.

This is the prepared fecula of the pith of various species of *Palmaceæ* and *Cycadaceæ*. It is prepared in two forms, meal and pearl sago, the latter of which is most generally employed. This is in small, hard, whitish or brownish grains, inodorous, and of a mucilaginous taste. It is insoluble in cold water, but by long boiling forms a glutinous solution. It is nutritive, easily digestible, and forms an excellent article of diet for the sick and convalescents.

## SAGO MUCILAGE.

R. Sago one ounce  
 Water one pint  
 Macerate by a gentle heat, for two hours, then boil for fifteen minutes, stirring continually, till the grains are perfectly dissolved, add sugar or flavoring, according to circumstances. *A. T. Thomson.*

## SAGO POSSET.

R. Sago two ounces  
 Water two pints

Macerate for two hours, by a gentle heat, then boil, till a mucilage is formed; then rub half an ounce of sugar on the rind of a lemon, add this and one fl. drachm of tincture of ginger to half a pint of sherry wine, pour the whole into the sago mucilage, and boil for five minutes. Useful in convalescence to restore strength. A wineglassful to be taken every four or five hours.  
*A. T. Thomson.*

## SAGO MILK.

R. Sago one ounce  
Water one pint

Macerate for half an hour, then add Milk one pint and a-half  
Boil slowly, till the sago is perfectly dissolved.  
*A. T. Thomson.*

## SALICINA.

## SALICIN.

R. Decoction of willow bark at will  
Treat with slaked lime, filter, and evaporate to consistence of syrup; add alcohol, again filter, evaporate, and let crystallize; wash the crystals with cold water.  
*Cottereau.*

Dose, four to six grains every three hours, in apyrexia of intermittents.

## PILLS OF SALICIN.

R. Salicin  
Extract of gentian, each, twelve grains  
Liquorice powder sufficient  
Mix, and make six pills.  
*Foy.*

## COMPOUND SALICIN PILLS.

R. Salicin one scruple  
Compound rhubarb pill two scruples  
Mix, and make twelve pills.  
*Beasley.*

## COMPOUND POWDER OF SALICIN.

R. Salicin two scruples  
Aromatic powder one drachm  
Mix, and divide into twelve powders.  
*Neligan.*

R. Salicin fifteen grains  
Tartar emetic one grain  
Powdered sugar fifty grains  
Mix, and divide into ten powders. One, thrice a-day.  
*Krombolz.*

## SALIX.

## WILLOW.

Many species of willow have been used in medicine, and are recognized in the different Pharmacopœias; that admitted by the U. S. Ph. is the *Salix alba*, a small tree, a native of Eu-

rope, but extensively cultivated in the United States.

*Ser. Syst.* Diccia diand. *Nat. Syst.* Sabiaceæ.

Linn. Sp. Pl. 1449. Lindley, Flor. Med. 318.

The official portion is the bark; this is in thin, flexible, fibrous pieces, of a brown color. It has a peculiar, aromatic odor, and an astringent, bitter taste. It is tonic and astringent, and has been used as a substitute for Peruvian bark.

## COMPOUND POWDER OF WILLOW BARK.

R. Powdered willow bark  
horsechestnut bark  
gentian  
calamus  
avens root equal parts

In intermittent fevers, in drachm doses.  
*Hufeland.*

## WILLOW BARK DENTIFRICE.

R. Powdered willow bark  
charcoal, each, half an ounce  
Extract of myrrh two drachms  
Balsam of Peru half a scruple  
Oil of cinnamon three drops  
Triturate well together.  
*Phæbus.*

## DECOCTION OF WILLOW BARK.

R. Contused willow bark one ounce and a-half  
Water fifteen fl. ounces  
Boil down to one-half.  
*Nieman.*

## OINTMENT OF WILLOW LEAVES.

R. Expressed juice of willow leaves two fl. ounces  
Lard sufficient  
Mix, and heat till moisture is driven off.  
Useful as a dressing to foul ulcers.  
*Hufeland.*

## SALVIA.

## SAGE.

Though many species of *Salvia* possess analogous remedial properties, one only is recognized by the U. S. Ph.—the *Salvia officinalis*, a perennial plant, native of the south of Europe, but generally cultivated in our gardens, flowering in June, at which time it should be collected.

*Ser. Syst.* Diand. monog. *Nat. Syst.* Lamiaceæ.

Linn. S. Pl. 34. Griffith, Med. Bot. 505.

The leaves are the official portion. These have a strong, fragrant odor, and a warm, bitterish, aromatic, somewhat astringent taste. Sage is stimulant, with some astringent and tonic powers. It is principally used in the composition of gargles, and is also said to abate the excessive sweats in hectic fever. The dose, in powder, is from twenty to thirty grains.

## INFUSION OF SAGE.

R. Sage half an ounce  
Boiling water two pints  
Infuse for half an hour, and strain. Sugar



and lemon juice may be added, according to circumstances. As a drink in fevers.

*Ellis.*

#### COMPOUND INFUSION OF SAGE.

R. Sage  
Boneset, each, half an ounce  
Cascarilla one drachm  
Water one pint and a-half  
Infuse till cold, and strain. Dose, a wineglassful every three or four hours.  
In hectic fever. *Ellis.*

#### GARGLE OF SAGE.

R. Infusion of sage one pint  
Diluted sulphuric acid two drachms  
Honey of roses one ounce  
Mix. In relaxation of the uvula, &c.  
*Radiis.*

R. Infusion of sage two pints  
Tincture of Peruvian bark  
Syrup of mulberries, each, half a fl. ounce  
Spirit of horseradish one drachm  
Mix. More active than the last. *Cadet.*

#### VINEGAR OF SAGE.

R. Sage one part  
Vinegar six parts  
Mix, and distil four parts. *Beral.*  
As a gargle, mixed with water.

### SAMBUCUS.

#### ELDER.

The species recognized by the U. S. Ph., is the *Sambucus Canadensis*, which appears to be perfectly identical in properties with the European kind, the *S. nigra*.

*Sec. Syst.* Pentand. trigyn. *Nat. Syst.* Caprifoliaceae.

Willd. Sp. Pl. 1494.

The official portion is the flowers, but the berries, bark, and leaves are also used. The flowers have a faint but peculiar odor when dried, and a bitterish taste. They are slightly stimulant and diaphoretic. The berries are diaphoretic and laxative; the bark acts as a hydragogue purgative, as do also the leaves.

#### ELDER FLOWER WATER.

R. Fresh elder flowers ten pounds  
Proof spirit seven fl. ounces  
Water two gallons  
Mix, and distil a gallon. *Lond. Ph.*

Principally used as a flavoring ingredient in mixtures and emulsions.

#### VINEGAR OF ELDER FLOWERS.

R. Elder flowers one part  
Vinegar of red wine twelve parts  
Macerate for eight days, express, and filter. As a gargle. *Soubéiran.*

#### GARGLE OF ELDER FLOWERS.

R. Elder flowers one ounce  
Boiling water one pint  
Infuse, strain, and add  
Nitrate of potassa half an ounce  
Tincture of burnet three fl. drachms  
Oxymel two fl. ounces  
Mix. *Saunders.*

#### EXTRACT OF ELDER BERRIES.

R. Elder berries one pound  
Bruise them in a mortar; express the juice, and evaporate to due consistency.  
*Dub. Ph.*

Has been praised in rheumatic, gouty, and eruptive affections; in doses of one to four drachms.

#### MIXTURE OF EXTRACT OF ELDER BERRIES.

R. Extract of elder berries  
Pulp of prunes  
Syrup of red poppies, each, two ounces  
Nitrate of potassa one drachm  
Mix. Two or three spoonfuls a-day, in asthma. *St. Marie.*

#### DECOCTION OF ELDER BARK.

R. Elder bark three handfuls  
Water two pints  
Boil to one-half. Half a pint, morning and evening, in dropsy. *Sydenham.*

#### OINTMENT OF ELDER LEAVES.

R. Fresh elder leaves three pounds  
Lard four pounds  
Suet two pounds  
Boil the leaves in the lard till crisp; express; strain; add the suet, and melt.  
*Dub. Ph.*

As a cooling application.

#### OINTMENT OF ELDER FLOWERS.

R. Elder flowers  
Lard equal parts  
Melt, and continue heat, till all moisture is driven off, and express. *Beral.*  
Used as the last.

### SANGUINARIA.

#### BLOODROOT.

This is the rhizome of the *Sanguinaria Canadensis*, popularly known as bloodroot or puccoon. It is a small, herbaceous perennial, flowering at the very commencement of the spring, at which time the leaf is small, but attains a large size during the summer.

*Sec. Syst.* Polyand. monog. *Nat. Syst.* Papaveraceae.

Linn. Sp. Pl. 723. Griffith, Med. Bot. 127.

The root is horizontal, abrupt, often contorted, of a reddish brown color, externally, and of a

bright orange red within. When dried it is somewhat flattened, much wrinkled and twisted, of a reddish brown color externally, and of a bright orange within, becoming brown by exposure. The powder is brownish red. It has a faint narcotic odor, and a bitterish, aerid taste, which is very persistent. It is an acrid emetic, with narcotic and stimulant properties. Dose, as an emetic, from ten to twenty grains; for other purposes, from one to five grains.

#### PILLS OF BLOODROOT.

R. Powdered bloodroot      one drachm  
 Conserve of roses      sufficient  
 Mix, and make thirty pills. One to two as alterative, &c., five to ten as an emetic.

#### INFUSION OF BLOODROOT.

R. Bloodroot      half an ounce  
 Boiling water      one pint  
 Infuse for two hours. Dose, half to one fl. ounce. *Beasley.*

#### TINCTURE OF BLOODROOT.

R. Bloodroot, bruised,      four ounces  
 Diluted alcohol      two pints  
 Macerate for fourteen days, express, and filter. *U. S. Ph.*

As emetic, three or four fl. drachms; as expectorant, alterative, &c., thirty to sixty drops.

### SAPO. SOAP.

Soaps are all combinations of animal or vegetable oils, with one or more of the alkalies; they are principally used for washing, but some of them are officinal.

### SAPO DURUS. HARD SOAP.

This is officinal under the name of *Sapo*, in the U. S. and Lond. Phs., and is a combination of olive oil and soda.

SPANISH, OR CASTILE SOAP.  
 This is the officinal soap of the U. S. Ph., and presents two varieties, the white and the marbled, the first of which only should be used.

### SAPO MOLLIS. SOFT SOAP.

This soap is a combination of olive or other vegetable oils and potassa, or animal oils with the same alkali.

### SAPO VULGARIS, COMMON SOAP,

Is a hard soap, made from tallow and caustic soda.

Besides these officinal soaps, there are many others, which are used medicinally, or for cleansing purposes.

#### ALMOND SOAP.

R. Caustic solution  
 of soda      one thousand parts  
 Oil of almonds      two thousand one hundred parts  
 Mix, and keep the mixture for some days, at a temperature of 68° F., stirring from time to time, until it acquires the consistence of a soft paste; place in moulds until dry. It should not be used for medicinal purposes, until it has been exposed to the action of the air for a month or two.

*Par. Cod.*

#### BEEF MARROW SOAP.

R. Purified beef  
 marrow      five hundred parts  
 Caustic solution  
 of soda      two hundred and fifty parts  
 Common salt      one hundred parts  
 Water      one thousand parts  
 Put the marrow, with hot water, into a porcelain vessel, and heat, until it is melted; then add the solution of caustic soda, by degrees, constantly stirring, till saponification is complete; then add the salt, slightly stirring, collect the soap which rises, drain it, melt it by a gentle heat, pour into moulds, and allow it to solidify. *Par. Cod.*

#### SOAP OF TURPENTINE. STARKEY'S SOAP.

R. Dry carbonate of potassa  
 Oil of turpentine  
 Venice turpentine      equal parts  
 Triturate the potassa with the oil, and then with the turpentine, when the mass has attained a proper consistence. Preserve in an earthenware vessel. *Ratier.*

Was supposed to be a corrector of the injurious effects of opium, hellebore, &c. It is now principally given in gonorrhœa and dropsy. Dose, eight to ten grains.

#### AROMATIC SOAP.

R. Concentrated solution of  
 soap      six ounces  
 Oil of bergamot  
 lavender  
 rosemary, each,      two drachms  
 Mix. Employed in baths, as tonic and antispasmodic. *Niemann.*

#### CAMPHORATED SOAP.

R. White soap      sixteen ounces  
 Boiling water      eight ounces  
 Olive oil      six ounces  
 Powdered camphor      one drachm  
 Dissolve the soap in the water, evaporate

gently to the consistence of a soft paste, add the camphor incorporated in the oil, mix well, and pour into moulds.

Said to be useful in chaps and excoriations. *Wetzler.*

#### COSMETIC SOAP POWDER.

R. White soap twelve ounces  
 Carbonate of potassa two ounces  
 Powdered orris root three ounces  
       horse-chestnuts two pounds  
 Oil of lavender  
       bergamot, each, forty drops  
       lemon thirty drops  
       cloves ten drops  
 Sugar half an ounce  
 Mix, and form a powder. *Niemann.*

#### ARSENICAL SOAP.

R. Arsenious acid two pounds  
 Carbonate of potassa twelve ounces  
 Camphor five ounces  
 White soap two pounds  
 Powdered lime eight ounces  
 Reduce each to powder, and mix. Used as a preservative for specimens of natural history against the attacks of insects. Known as Beconi's arsenical soap. *Gannal.*

#### SAPONINE. (*For cleaning gloves.*)

R. Powdered soap two hundred and fifty parts  
 Solution of chloride of potassa one hundred and sixty-five parts  
 Solution of ammonia ten parts  
 Water one hundred and fifty-five parts  
 Mix, and form a paste: a small portion rubbed on a glove with a piece of flannel will cleanse it. *Duvignan.*

#### GREASE BALLS.

R. Fuller's earth two pounds four ounces  
 Carbonate of soda  
 Soap, each, eight ounces  
 Add,  
       Yolks of eggs eight  
 Well beaten with  
       Ox gall eight ounces  
 Levigate thoroughly, form into cakes or balls, and dry. *Lenormand.*

#### BOLUS OF SOAP.

R. White soap two scruples  
 Oil of caraway two or three drops  
 Syrup sufficient  
 Mix, and make two boluses. They are purgative. *Swediaur.*

#### PILLS OF SOAP.

R. White soap one hundred and twenty-five parts

Marsh mallow root, powdered, sixteen parts  
 Nitrate of potassa four parts  
 Beat together till well incorporated, and divide into four-grain pills. *Par. Cod.*

#### PILLS OF SOAP AND OX GALL.

R. Powdered white soap two drachms  
 Extract of ox gall one drachm  
 Mix, and incorporate  
       Powdered guaiacum  
       Calomel, each, half a drachm  
       Powdered guaiacum wood sufficient  
 Mix, and make four-grain pills. In gout, one to two, morning and evening. *Vicq. D'Azir.*

#### COMPOUND SOAP PILLS.

R. White soap three drachms  
 Ammoniac  
 Rhubarb, each, one drachm  
 Aloes ten grains  
 Assafetida  
 Saffron, each, thirty-six grains  
 Mix, and make three-grain pills. Purgative and alterative; four to six a-day. *Recamier.*

#### ELECTUARY OF SOAP, &c.

R. White soap one drachm and a-half  
 Venice turpentine one drachm  
 Seneka  
 Marsh mallow, each, two drachms  
 Rob of juniper sufficient  
 Mix. Four teaspoonfuls a-day. *Vogt.*

#### ESSENCE OF SOAP.

R. White soap twenty-four parts  
 Distilled water thirty-two parts  
 Alcohol (.923) sixty-four parts  
 Carbonate of potassa one part  
 Essence of lemons sufficient  
 Dissolve the soap in the water and alcohol; add the potassa and essence, and filter. Used for the toilette. *Soubiran.*

#### CAMPHORATED ESSENCE OF SOAP.

R. White soap three parts  
 Camphor one part  
 Spirit of rosemary sixteen parts  
 Dissolve the camphor, and then the soap, in the spirit. As an embrocation in rheumatic pains, &c. *Guibourt.*

#### ETHEREAL SOLUTION OF SOAP.

R. Beef marrow soap one part  
 Acetic ether five parts  
 Dissolve by aid of a water-bath. Used as an embrocation in rheumatic pains, &c. *Foy.*

#### CAMPHORATED ACETIC BALSAM OF SOAP.

R. Common soap  
 Camphor, each, one drachm



Acetic ether one ounce  
 Oil of thyme ten drops  
 Dissolve the soap in the ether with the aid of heat; add the camphor, then the oil, and filter. Used as above.

*Cottureau.*

#### CATAPLASM OF SOAP.

R. Common soap four drachms  
 Roasted onion  
 Mustard, each, two ounces  
 Water sufficient  
 Heat together, and mix into a cataplasm.  
 As a maturing application to boils, abscesses, &c. *Foy.*

#### SOAP SUPPOSITORY.

R. Soap two ounces  
 Common salt one ounce  
 Honey sufficient  
 Mix, and form into conical suppositories, and oil them on the surface. *Spielmann.*

#### CLYSTER OF SOAP.

R. Barley water six ounces  
 White soap one drachm  
 Honey six drachms  
 Mix, and dissolve. *Brera.*

#### SOAP OF COD LIVER OIL.

R. Cod liver oil two ounces  
 Caustic soda two drachms  
 Water five drachms  
 Dissolve the soda in the water, and mix the solution with the oil. *Deschamps.*

#### IODURETTED SOAP OF COD LIVER OIL.

R. Soap of cod liver oil one ounce  
 Iodide of potassium one drachm  
 Water one drachm  
 Dissolve the iodide in the water, and add it to the soap. *Deschamps.*

#### SOAP, WITH SULPHUR.

R. Soap  
 Sulphur, each, four ounces  
 Oil of bergamot half a drachm  
 Water sufficient  
 Beat together. As an application in itch. *Frank.*

#### ITCH OINTMENT.

R. Brown soap one ounce  
 Common salt  
 Sulphur, each, half an ounce  
 Alcohol one fl. drachm  
 Vinegar two fl. drachms  
 Chloride of lime half a drachm  
 Rub well together. One-fourth to be used night and morning, as a friction. It is effectual, cheap, and inoffensive. *Emory.*

## SARSAPARILLA.

### SARSAPARILLA.

This is the official name for the roots of several species of *Smilax* found in Mexico and various parts of South America. These roots are known in commerce by names of the places from whence they are shipped, as Honduras, Jamaica, Vera Cruz, &c.

Sarsaparilla, as found in commerce, is in packages, composed of dried roots, several feet in length, about the thickness of a quill, more or less wrinkled, of an ash gray to a dark brown color externally, and white to brownish within. The odor is slight but peculiar, the taste is at first mucilaginous, but finally somewhat acrid. It is considered alterative and tonic, but its real action is not well understood. The dose, in powder, is half a drachm to a drachm, three or four times a-day.

### POWDER OF SARSAPARILLA AND PERUVIAN BARK.

R. Powdered sarsaparilla one ounce  
 Peruvian bark three drachms  
 Carbonate of soda two drachms  
 Mix, and divide into sixteen powders.  
 One, thrice a-day, as an alterative. *Cline.*

### INFUSION OF SARSAPARILLA.

R. Sarsaparilla, bruised, one ounce  
 Boiling water one pint  
 Digest for two hours, in a covered vessel, and strain. *U. S. Ph.*  
 One to four fl. ounces, three times a-day.

### ALKALINE INFUSION OF SARSAPARILLA.

R. Sarsaparilla, bruised, twelve ounces  
 Liquorice root, one ounce and a-half  
 Solution of potassa one fl. ounce and a-half  
 Boiling water five pints and a-half  
 Macerate for twenty-four hours, and strain.  
 Dose, from eight fl. ounces to one pint daily.  
 As alterative. *St. Geo. Hosp.*

### DECOCTION OF SARSAPARILLA.

R. Sliced sarsaparilla five ounces  
 Boiling distilled water four pints  
 Macerate for four hours in a covered vessel, remove sarsaparilla, bruise it, return it to liquor, and macerate for two hours, and boil down to two pints, then strain. *Lond. Ph.*  
 Dose, four to six fl. ounces a-day.

### COMPOUND DECOCTION OF SARSAPARILLA.

R. Sarsaparilla, sliced, six ounces  
 Bark of sassafras, sliced,  
 Guaiacum wood, rasped  
 Liquorice root, bruised, one ounce  
 each,  
 Mezerion, sliced, three drachms  
 Water four pints

Boil for a quarter of an hour, and strain.

*U. S. Ph.*

As an alterative and diaphoretic, in secondary syphilis, cutaneous affections, &c. Dose, four to six fl. ounces, a-day.

#### FELTZ'S DECOCTION OF SARSAPARILLA.

R. Sarsaparilla, bruised three ounces  
Isinglass half an ounce  
Crude antimony (tied in a rag) three drachms  
Water five pints

Boil to two pints and a-half, and strain.

*Beasley.*

#### VINACHE'S DECOCTION OF SARSAPARILLA.

R. Sarsaparilla, bruised,  
China root, bruised,  
Guaiacum wood, rasped,  
each, one ounce and a-half  
Crude antimony (in a rag) two ounces  
Water six pints

Macerate for twelve hours, boil to three pints, and add

Sassafras bark, sliced,  
Senna, each, half an ounce  
Infuse for an hour, strain, let settle, and decant.  
*Foy.*

#### LISBON DIET DRINK.

R. Guaiacum wood, rasped, one ounce  
Sarsaparilla, bruised, three ounces  
Mezereon, sliced, half an ounce  
Crude antimony (in a rag) two ounces  
Water twelve pints

Boil down to eight pints, and add

Red saunders, rasped,  
White sandal, rasped,  
each, three ounces  
Rose wood, rasped,  
Sassafras bark, sliced, each, one ounce  
Liquorice root, sliced, half an ounce

Infuse for four hours, strain, and add syrup according to taste.  
*Foy.*

Dose, a pint to two pints a-day.

R. Sarsaparilla, bruised, four ounces  
Dried walnut peel four ounces  
Guaiacum, rasped, one ounce and a-half  
Crude antimony (in a rag) half an ounce  
Water four pints

Boil down to three pints.  
*Pearson.*

#### ZITTMAN'S DECOCTION.

R. Sarsaparilla, bruised, twelve ounces  
Spring water fifty-six pints  
Macerate for twenty-four hours, and introduce, tied up in a rag.

Styptic powder (four parts alum and one of kino) one ounce and a-half  
Calomel half an ounce

Cinnabar one drachm

Boil down to eighteen pints, and add

Aniseed  
Fennel seed, each, half an ounce  
Senna three ounces

Liquorice root one ounce and a-half

Strain, and put aside as *strong decoction*.

Add to the residue

Sarsaparilla, bruised, six ounces  
Spring water fifty-six pints

Boil down to eighteen pints, and add

Lemon peel

Cinnamon

Cardamoms

Liquorice root, each, three drachms

Strain, and label, *Weak decoction*. To be given freely in the treatment of syphilitic and cutaneous affections, in chronic rheumatism, &c.  
*Radiis.*

#### JAUPERAND'S DECOCTION.

R. Bruised sarsaparilla

China root

Crude antimony, each, two ounces

Carbonate of potassa one drachm

Senna

Sassafras, sliced, each, one ounce

Rhubarb

Peruvian bark, each, half an ounce

Water sufficient

Boil by a gentle fire for eight hours, till twelve pints of decoction are obtained.

Let stand for some time, and strain. Advised in scrofula, two fl. ounces, three times a-day.  
*Bories.*

#### EXTRACT OF SARSAPARILLA.

R. Sarsaparilla, in coarse

powder, one pound

Diluted alcohol four pints

Proceed as directed for alcoholic extract of aconite. *U. S. Ph. and Par. Cod.*

Dose, from ten to twenty grains, three or four times a-day.

#### FLUID EXTRACT OF SARSAPARILLA.

R. Sarsaparilla, bruised, sixteen ounces

Liquorice root, bruised,

Guaiacum wood, rasped,

Sassafras bark, sliced, each, two ounces

Mezereon, sliced, six drachms

Diluted alcohol, eight pints

Digest for fourteen days, strain, express, and filter. Evaporate in water-bath to twelve fl. ounces, add eight ounces of sugar, and remove from fire when this is dissolved. Dose, one fl. drachm, three or four times a-day.  
*W. Hodgson.*

#### ESSENCE OF SARSAPARILLA.

R. Sarsaparilla, bruised, ten ounces

Distilled water six pints  
Macerate at a temperature of 120° for six hours, and strain; repeat with same quantity of water. Mix the liquors, evaporate in china vessels, at 160°.

If reduced to ten fl. ounces (or to nine fl. ounces, with one fl. ounce of spirit added), one fl. drachm mixed with seven fl. drachms, is equal to the decoction of usual strength. If reduced to five fl. ounces, one fl. drachm is equal to two fl. ounces of decoction. *Hening.*

R. Alcoholic extract of sarsaparilla one pound  
Sherry wine three pints  
Dissolve and filter. Half a fl. ounce to one fl. ounce, mixed with a quart of water; is equal to the decoction. *Beral.*

#### COMPOUND ESSENCE OF SARSAPARILLA.

R. Sarsaparilla, bruised, eight ounces  
Boiling water sufficient  
to exhaust the root, by successive macerations; unite the liquors, and evaporate to ten fl. ounces; strain, and add, when cool, Alcohol (.842)

Tincture of guaiacum, each, four fl. drachms  
White wine one fl. ounce  
Essence of sassafras twelve drops  
Extract of liquorice two drachms

Filter. Dose, a spoonful, morning and evening, in some convenient vehicle. *Cadet.*

#### SYRUP OF SARSAPARILLA.

R. Sarsaparilla, sliced, fifteen ounces  
Boiling water one gallon  
Macerate for twenty-four hours, boil down to four pints, strain, and add

Sugar fifteen ounces  
And evaporate to proper consistence. *Lond. Ph.*

R. Alcoholic extract of sarsaparilla six ounces  
Water four pints  
Dissolve by means of a water-bath, strain, and add

Sugar eight pounds  
Dissolve whilst hot. *Beral.*

Each fl. ounce is equal to fifteen grains of the extract.

#### COMPOUND SYRUP OF SARSAPARILLA.

R. Sarsaparilla, bruised, two pounds  
Guaiacum wood, rasped, three ounces  
Hundred-leaved roses  
Senna  
Liquorice root, bruised, each, two ounces

Oil of sassafras  
Oil of anise, each, five minims  
Oil of partridgeberry three minims  
Diluted alcohol ten pints  
Sugar eight pounds

Macerate the first five ingredients in the alcohol for fourteen days, express, and filter; evaporate the tincture to four pints, filter, add the sugar, and form a syrup; then, having rubbed the oils with a little of the syrup, mix well with the remainder. *U. S. Ph.*

R. Sarsaparilla two pounds  
Bittersweet  
Pipsissewa, each, half a pound  
Guaiacum  
Liquorice root, each, four ounces  
Sassafras  
Partridgeberry leaves, each, two ounces  
Sugar twelve pounds

Reduce the ingredients to a coarse powder, macerate them in diluted alcohol, 18° B. for two days, put in a displacement apparatus, and displace slowly until two gallons of liquid have passed. Evaporate on a water-bath till reduced to six pints, then add the sugar, and form a syrup. *Staples.*

Dose, half a fl. ounce, three or four times a-day.

#### SYRUP OF LAFFECTEUR.

R. Sarsaparilla, bruised,  
Marsh reed grass, each, thirty ounces  
Borage flowers eight ounces  
Senna  
White roses, each, two ounces  
Sugar  
Honey, each, six pounds  
Water eighteen pints

Boil the first two ingredients in half the water for an hour, strain off the decoction, and repeat the process with the remainder of the water, and boil two hours; towards close, add the senna, rose leaves, and borage, strain, mix the decoctions, add the sugar and honey, and boil to the consistence of syrup. Dose, six tablespoonfuls, early in the morning. *Ellis.*

R. Sarsaparilla, bruised, nine pounds  
Guaiacum wood, rasped,  
China root, bruised, each, six pounds  
Yellow Peruvian bark, bruised, three pounds

Macerate for twenty-four hours in Water one hundred and forty pints  
Boil down to one-third, express, and strain. Repeat twice, with same proportions of water; strain, unite the three decoctions, add Purified molasses thirty pounds



Evaporate to the consistence of syrup, and pour, boiling, on

Sassafras, rasped, five pounds  
Aniseed four ounces

Borage flowers one pound and a-half  
Finally, strain. *Cadet.*

One to three ounces a-day, in syphilitic and cutaneous disorders.

#### SYRUP OF GESNOUIN.

R. Syrup of sarsaparilla four pounds  
senna three ounces

Extract of borage five ounces

Conserve of elder berries one ounce

Mix, with heat. Four to six spoonfuls, early in the morning, using the infusion of sarsaparilla for drink. *Foy.*

#### SARSAPARILLA BEER.

R. Sarsaparilla, bruised, two pounds

Bark of guaiacum, powdered, eight ounces

Guaiacum wood, rasped, Aniseeds

Liquorice root, each, four ounces

Mezereon, bark of root, two ounces

Molasses two pounds

Cloves, bruised, twelve

Boiling water four gallons

Shake, thrice a-day. Let ferment; when fully fermented, to be taken in doses of a small tumblerful, two or three times a-day. *Hancock.*

### SASSAFRAS.

#### SASSAFRAS.

Two parts of the Sassafras, *Laurus sassafras* (*Sassafras officinale*), are officinal; the pith of the young branches and the bark of the root.

Sassafras is a medium-sized tree, found in most parts of the United States, growing in woods and open places, flowering before the appearance of the leaves.

*Sex. Syst.* Enneand. monog. *Nat. Syst.* Lauraceæ.

Nees. Pl. Med. i. 131. Griffith, Med. Bot. 551.

The pith is in slender, cylindrical pieces, very spongy and light, with a mucilaginous and somewhat aromatic taste, affording a clear mucilage on the addition of water. The bark is in small fragments, of a reddish brown color, brittle, of a fragrant odor, and a pleasant aromatic taste. It is stimulant and diaphoretic.

#### INFUSION OF SASSAFRAS BARK.

R. Sassafras bark half an ounce  
Boiling water one pint

Macerate for six hours, and strain. As a stimulating diaphoretic. *Niemann.*

#### COMPOUND INFUSION OF SASSAFRAS BARK.

R. Sassafras bark half an ounce

Liquorice root two drachms

Boiling water one pint

Infuse. One-half, morning and evening. In scrofulous complaints. *Hufeland.*

#### MUCILAGE OF SASSAFRAS PITH.

R. Sassafras pith one drachm

Boiling water one pint

Infuse, and strain. As a soothing application in ophthalmia, and as a demulcent drink in diseases of the bowels, lungs, and bladder. *Wood.*

#### TINCTURE OF SASSAFRAS.

R. Sassafras, sliced, one part

Alcohol six parts

Macerate for three days, express, and filter. Dose, one fl. drachm. *Beral.*

#### COMPOUND TINCTURE OF SASSAFRAS.

R. Sassafras, bruised, four ounces

Sage two ounces

Nutmeg, bruised, one ounce

Cinnamon, bruised, half an ounce

Star anise three drachms

Alcohol two pints

Macerate for three days, express, and filter. *Wurt. Ph.*

As a stomachic and carminative.

#### OIL OF SASSAFRAS.

R. Bruised sassafras at will  
Water sufficient

Distil, and collect the oil which sinks to the bottom of the product. *Guibourt.*

Dose, two to ten drops, as carminative and stimulant.

### SCAMMONIUM.

#### SCAMMONY.

This is the concrete juice of the root of *Convolvulus scammonia*, a twining perennial plant, a native of Syria. It has a large, succulent root, affording a milky juice, which concretes by exposure to the air.

*Sex. Syst.* Pentand. monog. *Nat. Syst.* Convolvulaceæ.

Linn. Sp. Pl. 218. Griffith, Med. Bot. 477.

The best scammony is light, resinous when broken, friable, not effervescing with an acid, of various shades of color, from dark ash to dark olive; forming an emulsion with water. The odor is peculiar and unpleasant, the taste is bitterish and acrid. It is an active purgative, causing pain, and usually operating with harshness when given alone, but much milder in combination. The dose is from five to fifteen grains.

#### POWDER OF SCAMMONY AND CREMOR TARTAR.

R. Powdered scammony

Cremor tartar equal parts

Mix. *Ed. Ph.*

Dose, fifteen to thirty grains.

## POWDER OF SCAMMONY AND SOOT.

- R. Powdered scammony one drachm  
 Soot one drachm and a-half  
 Powdered resin two drachms  
 Mix. Dose, twenty to thirty grains.

*Beasley.*

## COMPOUND POWDER OF SCAMMONY.

- R. Scammony  
 Hard extract of jalap, each, two ounces  
 Ginger half an ounce  
 Rub separately into fine powder, and mix.  
 Dose, ten to twenty grains. *Lond. Ph.*

## PILLS OF SCAMMONY.

- R. Powdered scammony fifteen grains  
 Sugar ten grains  
 Rub together, and add  
 Oil of caraway four minims

## PILLS OF SCAMMONY AND OX GALL.

- R. Powdered scammony two drachms  
 Ox gall three drachms  
 Extract of gentian half an ounce  
 Mix, and make one hundred and sixty-two pills. Dose, four to six a-day. *Cadet.*

## COMPOUND PILLS OF SCAMMONY.

- R. Powdered scammony  
 Extract of henbane  
 Powdered gamboge  
 Compound extract of colocynth  
 Soap, each, twelve grains  
 Water sufficient  
 Beat into mass, and form twelve pills.  
 Dose, two to three. *Guy's Hosp.*

## CONFECTION OF SCAMMONY.

- R. Powdered scammony one ounce and a-half  
 Cloves, bruised,  
 Powdered ginger, each, six drachms  
 Oil of caraway half fl. drachm  
 Syrup of roses sufficient  
 Rub the dry ingredients into fine powder,  
 add syrup, and rub well; then the oil of  
 caraway, and mix. Dose, twenty to forty  
 grains. *Dub. Ph.*

- R. Powdered scammony  
 jalap, each, two drachms  
 squill one drachm and a-half  
 resin of jalap half a drachm  
 Syrup of buckthorn sufficient  
 Mix, and form confection. A hydragogue,  
 in dose of ten grains to a scruple. *Foy.*

## EXTRACT OR RESIN OF SCAMMONY.

- R. Scammony, in fine powder, at will  
 Boil in successive portions of proof spirit,  
 till the spirit ceases to dissolve anything,  
 filter, distil off the spirit, pour off the  
 watery solution from the resin, wash this

well with boiling water, dry in a heat not  
 above 240°. *Ed. Ph.*

Dose, five to ten grains.

## EMULSION OF SCAMMONY.

- R. Resin of scammony seven grains  
 Milk three fl. ounces  
 Triturate the resin with a little of the  
 milk, and gradually add the rest. *Ed. Ph.*  
 The whole at a dose.

## COMPOUND EMULSION OF SCAMMONY.

- R. Scammony seven grains  
 Sugar two drachms  
 Triturate, and add gradually  
 New milk three fl. ounces  
 Cherry laurel water three or four drops  
 for a dose. *Blanche.*

## SCAMMONY MIXTURE.

- R. Resin of scammony twelve grains  
 Spirit of rosemary one fl. drachm  
 Orange-flower water  
 Syrup of peach  
 flowers, each, one fl. ounce  
 Mix. *Cadet.*

## SCAMMONY OIL.

- R. Powdered scammony one scruple  
 Oil of almonds one ounce  
 Rub well together. Dose, half an ounce.  
*Van Mons.*

## ELIXIR OF SCAMMONY.

- R. Scammony two drachms  
 Proof spirit eight fl. ounces  
 Heat, and then set fire to the spirit, and  
 add  
 Sugar four ounces  
 When it is dissolved, extinguish the flame,  
 and add  
 Syrup of violets two fl. ounces  
 Filter. It will give twelve ounces, con-  
 taining twelve grains of scammony to the  
 ounce. *Guibourt.*

## SOAP OF SCAMMONY.

- R. Scammony one drachm  
 Soap two drachms  
 Alcohol (-874) two fl. ounces  
 Dissolve by means of a water-bath.  
*Guibourt.*

## PURGATIVE PASTILLES.

- R. Scammony six grains  
 Tincture of senna forty drops  
 Carbonate of magnesia five scruples  
 White sugar eight scruples  
 Powdered liquorice eight grains  
 Gum tragacanth five grains  
 Oil of aniseed one drop  
 Syrup of violets sufficient  
 to make eight pastilles. These are known

as *Pastilles de Santé*, and are useful in cases of acid cructation and flatulence. One or two, taken early in the morning, act as a laxative; by repeating the dose every quarter of an hour, full purgation ensues. *Delvincourt.*

## PURGATIVE CHOCOLATE.

R. Chocolate five drachms  
Scammony resin six grains  
Calomel (hydrosul-  
limate) one and a-half grains  
Sugar half a drachm

Triturate together in a mortar the scammony and sugar, then add the calomel, and, when thoroughly mixed, add the chocolate, previously softened by the heat of a water-bath. Make into forms. To be taken dry, and followed by some bland liquid. *Mialhe.*

## SCILLA,

## SQUILL,

Is the bulb of *Scilla maritima*, a perennial plant, growing on the seacoast of the countries bordering on the Mediterranean. The bulb is large, pyriform, and tunicated; there are two varieties, the red and the white, but identical in their medical qualities.

*Ser. Syst.* Hexand. monog. *Nat. Syst.* Liliaceæ.

Linn. Sp. Pl. 442. Griffith, Med. Bot. 652.

The bulb is sliced and dried for use, in this state: it is in white, or yellowish-white, semi-transparent pieces, which are flexible when moist, but brittle when dry; of a mucilaginous, bitter taste, but scarcely any odor.

Squill is expectorant, diuretic, and in large doses emetic, and even purgative. Dose, as diuretic or expectorant, one grain two or three times a-day; as emetic, six to twelve grains.

## POWDER OF SQUILL AND NITRE.

R. Powdered squill six grains  
nitre one drachm  
Mix, and divide into six powders. One, three times a-day, in sugar and water. As a diuretic. *Ellis.*

## POWDER OF SQUILL AND IPECACUANHA.

R. Powdered squill twelve grains  
ipecacuanha twenty-four grains  
Mix, and divide into six powders. One, every two hours in chronic catarrh. *Foy.*

## POWDER OF SQUILL AND CREMOR

## TARTAR.

R. Powdered squill one drachm  
Cremor tartar nine drachms  
Mix. Twenty to thirty grains, two or three times a-day, as a diuretic.

*Guy's Hosp.*

## POWDER OF SQUILL AND SULPHUR.

R. Powdered squill one part  
Flowers of sulphur two parts  
Powdered sugar three parts  
Mix. Dose, from five to twenty grains, according to age, in catarrhs. *Guibourt.*

## POWDER OF SQUILL AND CALOMEL.

R. Powdered squill three grains  
Calomel  
Powdered gamboge, each, half a grain  
Mix. To be taken in the evening. As a diuretic. *A. Cooper.*

## COMPOUND POWDER OF SQUILL.

R. Powdered squill  
foxglove, each, one grain  
Oil of juniper two drops  
Borate of soda  
Powdered liquorice, each, one scruple  
Powdered cinnamon two grains  
Mix. To be repeated, two or three times a-day, as a diuretic. *Radius.*

R. Powdered squill  
foxglove, each, five grains  
Resin of jalap six grains  
Acetate of potassa thirty grains  
Sulphate of soda two drachms  
Mix. To be taken early in the morning, as a purgative and diuretic. *Bories.*

## PILLS OF SQUILL AND CALOMEL.

R. Calomel  
Powdered squill, each, twelve grains  
Conserve of roses sufficient  
Mix, and form twelve pills. One, night and morning. In dropsy, arising from visceral derangement. *Ellis.*

## PILLS OF SQUILL AND AMMONIAC.

R. Powdered squill thirty grains  
Ammoniac one drachm and a-half  
Extract of hemlock thirty grains  
Mix, and form thirty pills; two, twice a-day. In asthma and chronic catarrh. *Ellis.*

## PILLS OF SQUILL AND CROTON OIL.

R. Compound squill pill two scruples  
extract of colocynth two scruples  
Croton oil six minims  
Mix, and form eighteen pills. Three, twice a-week, in dropsy. *Schwyn.*

## PILLS OF SQUILL AND IPECACUANHA.

R. Powdered squill half an ounce  
ipecacuanha two drachms  
Extract of opium fifteen grains  
Butter of cocoa one ounce  
Syrup of gum sufficient  
Beat together, and make pills of four



grains. One, three times a-day, as an expectorant. *Cadet.*

R. Powdered squill twelve grains  
 ipecacuanha twelve grains  
 Extract of dandelion three scruples  
 Blue pill ten grains  
 Simple syrup sufficient  
 Mix, and make twenty-four pills. Two, to be taken morning and evening, in dropsy. *Ainslie.*

#### PILLS OF SQUILL AND HENBANE.

R. Powdered squill half a drachm  
 Extract of henbane two scruples  
 Myrrh one drachm and a-half  
 Water sufficient  
 Beat together, and make thirty pills. Two, morning and evening, as expectorant. *Paris.*

#### COMPOUND PILLS OF SQUILL.

R. Calomel three grains  
 Recent squill  
 Ammoniac, each, one scruple  
 Dover's powder half a drachm  
 Conserve of roses sufficient  
 Make mass, and divide into thirty pills. One, three or four times a-day. In troublesome catarrh. *Latham.*

R. Powdered squill half a drachm  
 Calomel twenty-four grains  
 Tartar emetic six grains  
 Powdered opium eighteen grains  
 Conserve of roses sufficient  
 Beat together, and make twenty-four pills. One at night, in catarrh. *Ellis.*

R. Powdered squill one drachm  
 ginger -  
 ammoniac, each, two drachms  
 Soap three drachms  
 Syrup sufficient  
 Beat into mass, and form one hundred and twenty pills. *U. S. Ph.*

Five to ten grains, three or four times a-day, as a stimulant expectorant.

R. Powdered squill fifteen grains  
 ammoniac one drachm and a-half  
 seneka two drachms  
 Golden sulph. of anti-mony half a drachm  
 Extract of dandelion sufficient  
 Mix, and make pills of two grains. Diuretic. *Berends.*

R. Powdered squill twenty-four grains  
 Calomel sixteen grains  
 Soap one drachm and a half  
 Galbanum two drachms

Extract of dandelion three drachms and a-half  
 Essence of orange sufficient  
 Mix, and make pills of two grains. Three or four a-day, as purgative and diuretic. *Pideret.*

#### COMPOUND SYRUP OF SQUILL.

R. Bruised squill  
 seneka, each, four ounces  
 Tartar emetic forty-eight grains  
 Water four pints  
 Sugar three pounds and a-half  
 Pour the water on the squill and seneka, boil to one-half, strain, and add the sugar; evaporate to three pints, and, whilst hot, add the tartar emetic. *U. S. Ph.*

R. Squill  
 Seneka, in coarse powder, each, four ounces  
 Tartar emetic forty-eight grains  
 Alcohol half a pint  
 Water sufficient  
 Sugar three pounds and a-half  
 Mix the alcohol with two pints and a-half of the water, and macerate the squill and seneka in the mixture for twenty-four hours. Put the whole into a displacement apparatus, and add as much water as may be necessary to obtain three pints of filtered liquor. Boil this for a few minutes, evaporate to one-half, and strain, then add the sugar, and evaporate to three pints; lastly, dissolve the tartar emetic in the syrup, whilst hot. *U. S. Ph.*

Known as *Hive syrup*. Dose, as expectorant, twenty to thirty drops, for adult; for children, five to ten drops; in croup, ten drops to a fl. drachm, repeated till it vomits.

R. Extract of seneka and squill one pound  
 Clarified honey, at 160°, six pounds  
 Mix, and add  
 Tartar emetic sixteen grains  
 to each sixteen fl. ounces of the syrup. *Ecky.*

R. Oxyssel of squill one fl. ounce and a-half  
 Syrup of ipecacuanha  
 poppies, each, two fl. ounces  
 orange-flowers half an ounce  
 Mix. Dose, half to one fl. ounce in hoop-cough. *Cadet.*

#### WINE OF SQUILL.

R. Squill one ounce  
 White wine sixteen fl. ounces  
 Macerate for twelve days, express, and filter. *Par. Cod.*

## COMPOUND WINE OF SQUILL.

R. Bruised squill one ounce  
 orange peel  
 calamus, each, three drachms  
 juniper berries two drachms

White wine four pints

Macerate for three days, express, filter, and add

Oxymel of squills two fl. ounces

R. Dried squill, bruised,  
 Rhubarb

Juniper berries, each, one drachm

Cinnamon three drachms

Zedoary two drachms

Carbonate of  
 potassa one drachm and a-half

White wine two pints

Macerate, express, and filter, Dose, two to four small wineglassfuls a-day, as a diuretic. *Taddei.*

## BITTER WINE OF SQUILL.

R. Squill

Root of swallow-  
 wort, each, half an ounce

Peruvian bark

Winter's bark

Lemon peel, each, two ounces

Angelica half an ounce

Wormwood

Balm, each, one ounce

Juniper berries

Macc, each, half an ounce

White wine eight pints

Digest by a gentle heat, for four days, express, and filter. As a diuretic, in doses of one to three fl. ounces. *Cottureau.*

## TINCTURE OF SQUILL.

R. Squill four ounces

Diluted alcohol two pints

Macerate for fourteen days, express, and filter. *U. S. Ph.*

Dose, as diuretic or expectorant, twenty to forty drops.

## ALKALINE TINCTURE OF SQUILL.

R. Squill two ounces

Solution of potassa two fl. drachms

Diluted alcohol twelve fl. ounces

Macerate for three days, express, and filter. *Van Mons.*

## TINCTURE OF SQUILL AND ELATERIUM.

R. Tincture of squill

Vinegar of colchi-  
 cum, each, two fl. drachms

Spirit of nitric ether one fl. ounce

Extract of elaterium one grain

Mix. Dose, fifteen minims to one fl. drachm. *St. Bart. Hosp.*

## COMPOUND TINCTURE OF SQUILL AND BENZOIN.

R. Squill

Orris root

Elecampane, each, twenty-five drachms

Benzoin two drachms

Liquorice root

Anised

Myrrh, each, four scruples

Gum ammoniac two scruples

Saffron eighteen grains

Diluted alcohol one pint, six fl. ounces

Macerate for fifteen days, express, and filter. Celebrated as *Wedel's elixir*. Dose, forty to sixty drops, in catarrh, asthma, &c. *Cadet.*

## ETHEREAL TINCTURE OF SQUILL.

R. Squill one ounce and a-half

Muriatic ether

Spirit of juniper, each, half a pound

Water sufficient

Distil one pound. Dose, ten to twenty drops in water, as a diuretic. *Augustin.*

## MIXTURE OF SYRUP OF SQUILLS, &amp;C.

R. Syrup of squill half fl. ounce

Paregoric elixir two fl. drachms

Antimonial wine one fl. drachm

Powdered gum Arabic half a drachm

Distilled water three fl. ounces

Mix. A teaspoonful, every two or three hours, as expectorant; suited to children. *Ellis.*

R. Syrup of squill

Peppermint water, each, two fl. ounces

Paregoric elixir

Compound spirit of

lavender, each, half fl. ounce

Syrup one fl. ounce

Mix. A spoonful, three or four times a-day. A valuable expectorant. *Christison.*

## MIXTURE OF OXYMEL OF SQUILL AND VALERIAN.

R. Powdered valerian two drachms

Oxymel of squill one fl. ounce

Laudanum twenty drops

Water one fl. ounce

Mix. A teaspoonful, every hour, after an emetic in croup. *Kimbel.*

## MIXTURE OF EXTRACT OF SQUILL AND RHUBARB.

R. Extract of squill sixteen grains

Liquid acetate of potassa half an ounce

Parsley water four fl. ounces

Syrup of rhubarb one fl. ounce

Mix. As a diuretic. *Radins.*

### MIXTURE OF OXYMEL OF SQUILL AND AMMONIAC.

R. Oxymel of squill            six fl. drachms  
 Gum ammoniac                one drachm  
 Extract of elecampane            twenty-four grains  
 Syrup of hyssop               six fl. drachms  
 Hyssop water                four fl. ounces  
 Mix. A spoonful every hour, as an expectorant. *Foy.*

### MIXTURE OF VINEGAR OF SQUILL.

R. Vinegar of squill            one fl. drachm  
 Barley water                five fl. ounces  
 Syrup of saffron               one fl. ounce  
 Mix. A tablespoonful, three or four times a-day, in troublesome cough. *Ainslie.*

### MIXTURE OF VINEGAR OF SQUILL AND AMMONIA.

R. Vinegar of squill            two fl. drachms  
 Solution of acetate of ammonia  
 Compound spirit of horse-radish, each, one fl. ounce and a-half  
 Diluted pimento water            four fl. ounces and a-half  
 Mix. Dose, two fl. ounces, three times a-day. As a diuretic. *St. Bart. Hosp.*

### MIXTURE OF OXYMEL OF SQUILL AND IPECACUANHA.

R. Ipecacuanha            one drachm and a-half  
 Lemon peel                two drachms  
 Cremor tartar               half an ounce  
 Water                      four fl. ounces  
 Boil, strain, and add  
 Oxymel of squill            half a fl. ounce  
 Mix well, as an expectorant. *Cadet.*

### MIXTURE OF OXYMEL OF SQUILL AND MARSH MALLOW.

R. Oxymel of squill  
 Syrup of marsh mallow  
 Mucilage of gum Arabic    equal parts  
 Mix. As expectorant, in spoonful doses. *Foy.*

### EMULSION WITH SQUILL.

R. Oil of almonds  
 Mucilage of gum Arabic, each,            one fl. ounce  
 Wine of squill               eight fl. scruples  
       ipecacuanha            four fl. scruples  
 Syrup of tolu                two fl. ounces  
 Water of hyssop            four fl. ounces  
 Water                      eight fl. ounces  
 Make an emulsion. *Beral.*

### OINTMENT OF SQUILL.

R. Squill                      three ounces  
 Solution of potassa            sufficient  
 Reduce to mucilage by boiling, and add

Lard                            sufficient  
 to form an ointment. As friction to indolent tumors. *Hufeland.*

### COMPOUND OINTMENT OF SQUILL.

R. Fresh squill  
 Root of blue iris  
       male fern, each,            six ounces  
 Juice of elaterium            two pounds  
       bryony                    three pounds  
 Macerate for twenty-four hours, boil, express, and evaporate to soft consistence, and add  
 White wax                    fifteen ounces  
 Oil of mucilage               four pounds  
 Mix. As a resolvent application. *Saxon Ph.*

### EXTRACT OF SQUILL.

R. Squill                      one pound  
 Proof spirit                    four pints  
 Macerate for some days, express, strain and filter; digest the residue with two pints of spirit, express, strain, and filter. Distil off the spirit, and evaporate to proper consistence. Dose, one to three grains. *Par. Cod.*

### ELECTUARY OF SQUILL.

R. Oxymel of squill            two fl. ounces  
 Cremor tartar                three ounces  
 Mix. Dose, two drachms. *Beasley.*  
 R. Powder of squill and nitre  
 Gum ammoniac  
 Tartrate of potassa, each, two drachms  
 Muriate of ammonia            one scruple  
 Syrup of cinnamon            sufficient  
 Mix. Dose, two drachms, three times a-day, in dropsy. *Radius.*

### VINEGAR OF SQUILL.

R. Bruised squill               four ounces  
 Distilled vinegar               two pints  
 Alcohol                      one fl. ounce  
 Macerate the squill with the vinegar in a close glass vessel for seven days, express, and let settle, pour off the clear liquid, and add alcohol. *U. S. Ph.*

Diuretic and expectorant. Dose, thirty minims to a fl. drachm.

### OXYMEL OF SQUILL.

R. Vinegar of squill            two pints  
 Clarified honey               three pounds  
 Mix, and evaporate by water-bath to the proper consistence. *U. S. Ph.*  
 Dose, one to two fl. drachms.

### SYRUP OF SQUILL.

R. Vinegar of squill            one pint  
 Sugar                        two pounds



Mix, and form syrup. *U. S. Ph.*  
 As expectorant. Dose, about a fl. drachm.  
 AROMATIC SYRUP OF SQUILL.  
 R. Vinegar of squill half a pound  
 Syrup of cinnamon  
 ginger, each, one pound  
 Mix. As a stimulating expectorant.  
*Swed. aur.*

## SCOPARIUS.

## BROOM.

This is the fresh tops of the *Cytisus scoparius*, a shrub, native of many parts of Europe, and cultivated in this country, with numerous, bright yellow flowers.

*Sex. Syst.* Diadel. decand. *Nat. Syst.* Fabaceæ.

Link. Enum. ii. 241. Griffith. Med. Bot. 233.

The official portion is the tops of the branches, but the seeds are also used. The branches have a bitter, nauseous taste, and a strong, peculiar odor. It is diuretic and cathartic, and even emetic, and has been advantageously used in dropsy.

## INFUSION OF BROOM.

R. Broom tops one ounce  
 Boiling water one pint  
 Digest for four hours in a covered vessel, and strain. *Lond. Ph.*

Dose, two to four fl. ounces, three times a-day.

## DECOCTION OF BROOM.

R. Broom tops  
 Juniper tops, each, half an ounce  
 Cremor tartar three drachms  
 Water one pint and a-half  
 Boil down to a pint, and strain. *Ed. Ph.*

## COMPOUND DECOCTION OF BROOM.

R. Broom tops  
 Juniper berries  
 Dandelion root, each, half an ounce  
 Water one pint and a-half  
 Boil down to a pint, and strain.  
*Lond. Ph.*

Dose, same as infusion.

## EXTRACT OF BROOM.

R. Tops of broom at will  
 Boil, in eight times their weight in water, down to one-half; express, let settle, and strain. Evaporate by vapor-bath to proper consistence. *Dub. Ph.*

Dose, a scruple to a drachm.

## CONSERVE OF BROOM.

R. Broom flowers one part  
 Sugar two parts  
 Rub together. Dose, a drachm to two drachms, in gout, rheumatism, &c.  
*Van Mons.*

## SCROPHULARIA NODOSA.

## FIGWORT.

A semi-aquatic plant, native of many parts of Europe, flowering in July.

*Sex. Syst.* Didyn. angios. *Nat. Syst.* Scrophulariaceæ.

Linn. Sp. Pl. 863. Griffith. Med. Bot. 518.

The leaves are the official part; they have a rank, unpleasant odor, and a bitter, disagreeable taste. They have been used as tonic, diuretic, and anthelmintic, but are principally used as an external discutient application.

## OINTMENT OF FIGWORT.

R. Fresh leaves of figwort  
 Prepared lard, each, two drachms  
 suet one pound  
 Boil till the leaves are crisp, express, and strain. *Dub. Ph.*

As an application to piles, painful swellings, and cutaneous eruptions.

## OIL OF FIGWORT.

R. Leaves of figwort three parts  
 Olive oil one part  
 Infuse, express, and strain. Used as above.  
*Van Mons.*

## SENEGA.

## SENEKA.

The official name for the root of *Polygala senega*, a native, perennial plant, found in most parts of the United States, on hill sides and dry woods, flowering from June to August.

*Sex. Syst.* Diadel. octand. *Nat. Syst.* Polygalaceæ.

Linn. Sp. Pl. 990. Griffith. Med. Bot. 225.

The root is contorted, knotted, tapering, branched, with a ridge or carina. It has a thick, resinous, grayish yellow, cortical portion, which only is active. It has a peculiar, but unpleasant odor; and a mucilaginous, sweetish taste, which becomes acrid and irritating. Its action is very various, being emetic, sudorific, diuretic, and expectorant, and even emmenagogue and purgative. It is principally used as a stimulating expectorant and diuretic. The dose, in powder, is from ten to twenty grains, but it is seldom given in this form.

## COMPOUND POWDER OF SENEKA.

R. Powdered seneka half an ounce  
 Cremor tartar six drachms  
 Magnesia two drachms  
 Mix. A teaspoonful, twice a-day, in pannus of the eye. *Radius.*

## PILLS OF SENEKA.

R. Powdered seneka six drachms  
 Extract of dandelion sufficient  
 Mix, and make pills of two or three grains. Six to twelve, three times a-day, in hypopyon and pannus. *Radius.*

## INFUSION OF SENEKA.

R. Seneka ten drachms  
Boiling water one pint  
Infuse for four hours in a covered vessel,  
and strain. *Ed. Ph.*

Dose, one to three fl. ounces.

## COMPOUND INFUSION OF SENEKA.

R. Seneka two drachms  
Boiling water six fl. ounces  
Infuse, strain, and add  
Syrup of tolu one fl. ounce  
Ammoniac half a drachm  
Mix well. A tablespoonful, every two  
hours. In catarrh. *Ellis.*

## DECOCTION OF SENEKA.

R. Seneka, bruised, one ounce  
Water one pint and a-half  
Boil down to one pint, and strain. *U. S. Ph.*

Dose, a tablespoonful, every three hours.

R. Seneka, bruised, one ounce  
Liquorice root half an ounce  
Distilled water one pint and a-half  
Boil down to a pint, and strain. Dose, a  
tablespoonful, in pectoral diseases. *Ellis.*

R. Bruised seneka one ounce  
Orange peel sufficient  
Water one pint  
Simmer by a slow fire, till reduced one-  
third; add orange peel; cover till cold,  
then strain. Four fl. ounces a-day, at  
first, then increase, as an emmenagogue. *Chapman.*

## SYRUP OF SENEKA.

R. Bruised seneka four ounces  
Water one pint  
Sugar one pound  
Boil the seneka with the water, to one-  
half; strain, add the sugar, and form  
syrup. *U. S. Ph.*

Dose, one to two fl. drachms, in pectoral com-  
plaints.

## EMULSION WITH SENEKA.

R. Bruised seneka half an ounce  
Water nine fl. ounces  
Boil down to one-third, strain, and add  
Camphor one scruple  
Gum Arabic two drachms  
Make an emulsion, and add  
Compound tincture of  
ammonia two fl. drachms  
A spoonful, every two hours, as a stimu-  
lating expectorant. *Phabus.*

## PECTORAL JELLY WITH SENEKA.

R. Bruised seneka two drachms  
Water twelve fl. ounces

Boil down to nine fl. ounces, strain, and  
add

Isinglass sufficient  
Syrup of orange flowers one ounce  
Form a jelly. A spoonful, occasionally. *Radiis.*

## MIXTURE WITH SENEKA.

R. Seneka, bruised, two drachms  
Water sufficient  
to obtain eight fl. ounces of strained de-  
coction; add

Camphor one drachm  
Mix. A spoonful, occasionally. *Brera.*

R. Infusion of seneka four fl. ounces  
Syrup of ipecacuanha one fl. ounce  
Oxymel of squill three fl. drachms  
Tartar emetic one grain and a-half  
Mix. A spoonful every quarter of an  
hour, till vomiting is produced, in croup. *Juddot.*

R. Bruised seneka one drachm and a-half  
Boiling water sufficient  
to obtain four fl. ounces of the strained  
decoction; add

Antimonial wine two fl. scruples  
Syrup of marsh mallow one fl. ounce  
A small spoonful, occasionally, in the  
second stage of croup, as an expectorant. *Wendt.*

## EXTRACT OF SENEKA AND SQUILL.

R. Seneka  
Squill, each, in coarse  
powder, two pounds  
Proof spirit sufficient  
to cover; transfer to displacement appa-  
ratus; pass proof spirit through till near-  
ly tasteless; strain; distil off spirit, and  
evaporate to proper consistence. *Ecky.*

## POLYGALIC ACID.

R. Seneka, in powder, sixteen ounces  
Alcohol (35° B.) six pints  
Ether sufficient  
Purified animal charcoal two ounces  
Boil the seneka in four pints of the alcohol  
for fifteen minutes; suffer it to cool, then  
throw the whole on a displacement filter,  
and when the liquid ceases to pass add  
more alcohol, until six pints of tincture  
are obtained. Distil off the alcohol till of a  
syrupeous consistence, wash this with ether,  
to remove fatty matter, and throw the  
residue into several times its bulk of con-  
centrated alcohol. After standing for  
twenty-four hours, the polygalic acid will  
be precipitated as a light brown powder,  
which is collected on a filter, washed with  
cold, strong alcohol, and dried. *W. Procter.*

SYRUP OF POLYGALIC ACID.  
 R. Polygalic acid eight grains  
 Boiling water half a fl. ounce  
 Syrup of gum  
 Arabic one fl. ounce and a-half  
 Mix, and make.  
 Dose, a teaspoonful.

SENNA.

SENNA.

Under this name is included the leaves of several species of *Cassia*, as *C. acutifolia*, *C. elongata*, *C. obovata*, &c., forming what are termed Alexandrian, Tripoli, India, and Mecca sennas. They are all perennial plants, growing in warm climates.

*Sex. Syst.* Decand. monog. *Nat. Syst.* Fabaceæ.

Christison, Dispen. 858. Griffith, Med. Bot. 254.

The leaves only are officinal in the U. S. and British Pharm., but the pods are recognized by several of the European authorities. The leaves have a faint, but unpleasant odor, and a somewhat bitter, very nauseous taste. Senna is an active purgative, usually causing nausea and colic when given alone. It is seldom administered in substance, the dose is from half a drachm to two drachms.

COMPOUND POWDER OF SENNA.

R. Powdered senna  
 Cremor tartar, each, two ounces  
 Powdered scammony half an ounce  
 ginger two drachms  
 Mix. Dose, a scruple to a drachm.  
*Lond. Ph.*, 1824.

POWDER OF SENNA AND GUAIAIACUM.

R. Powdered senna  
 guaiacum equal parts  
 Dose, two teaspoonfuls, twice or thrice a-day. In jaundice. *Augustin.*

ALCOHOLIC EXTRACT OF SENNA.

R. Senna one part  
 Alcohol four or five parts  
 Heat slowly on a water-bath, to boiling point, let cool; in twenty-four hours express, and strain; repeat process with same quantity of alcohol, unite the tinctures, distil off the alcohol, and evaporate.

*Guibourt.*

PILLS OF SENNA.

R. Powdered senna one drachm  
 Extract of dandelion sufficient  
 Mix, and make thirty pills. Dose, five to eight. *Hufeland.*

CONFECTION OF SENNA.

R. Senna eight ounces  
 Coriander four ounces

Liquorice, bruised, three ounces  
 Figs one pound  
 Pulp of prunes  
 tamarinds  
 purging cassia, each,  
 half a pound

Sugar two pounds and a-half  
 Water four parts

Rub the senna and coriander together, and separate ten ounces with a sieve. Boil the residue with the figs and liquorice root in the water, to one-half, express, and strain. Evaporate by a water-bath to a pint and a-half, add the sugar and form a syrup, then rub the pulps with the syrup, add the sifted powder, and mix well. *U. S. Ph.*

A good laxative. Dose, about two drachms, taken at bedtime.

COMPOUND CONFECTION OF SENNA.

R. Confection of senna two ounces  
 Powdered jalap one drachm  
 Cremor tartar two drachms  
 Powdered ginger one drachm and a-half  
 Syrup sufficient  
 Mix. Dose, one drachm. *Beasley.*

ELECTUARY OF SENNA AND RHUBARB.

R. Powdered rhubarb  
 senna, each, two drachms  
 fennel three drachms  
 liquorice half an ounce  
 Pulp of purging cassia  
 tamarinds, each, two ounces  
 Syrup of male fern sufficient  
 Mix. Dose, two drachms to half an ounce.  
*Van Mons.*

ELECTUARY OF SENNA AND CREMOR TARTAR.

R. Powdered senna three drachms  
 Cremor tartar one drachm  
 Manna three ounces and a-half  
 Pulp of purging cassia  
 tamarinds,  
 each, one ounce and a-half  
 Syrup of violets sufficient  
 Mix. Dose, about two drachms.  
*Van Mons.*

ELECTUARY OF SENNA AND FIGS.

R. Powdered senna half an ounce  
 Pulp of figs sufficient  
 Make an electuary. A piece the size of a hazelnut, night and morning, to obviate costiveness. *Ellis.*

ELECTUARY OF SENNA AND SULPHUR.

R. Powdered senna  
 Flowers of sulphur  
 Cremor tartar, each, one ounce



Manna six ounces  
 Pulp of tamarinds eight ounces  
 Syrup of senna sufficient  
 Mix. Said to be useful in hemorrhoids.  
 Dose, two to three drachms. *Swed. iaur.*

#### COMPOUND WINE OF SENNA.

R. Senna one ounce  
 Rhubarb six drachms  
 Cloves  
 Saffron, each, one drachm  
 Sherry wine two pints  
 Macerate for five days, often agitating, and decant. As a tonic purgative. Dose, about two fl. ounces. *Pierquin.*

R. Senna four ounces  
 Coriander  
 Fennel, each, two drachms  
 Sherry wine two pints and a-half  
 Digest for three days; add  
 Stoned raisins three ounces  
 Macerate for twenty-four hours, express, and strain. *Swed. Ph.*

#### COMPOUND TINCTURE OF SENNA.

R. Senna three ounces and a-half  
 Caraway, bruised, three drachms and a-half  
 Cardamom, bruised, one drachm  
 Raisins five ounces  
 Proof spirit two pints  
 Macerate for fourteen days, express, and filter. *Lond. Ph.*

A warm, stomachic purgative, in atonic gout, &c., in doses of two fl. drachms to a fl. ounce.

#### TINCTURE OF SENNA AND JALAP.

R. Senna three ounces  
 Jalap, in powder, one ounce  
 Coriander, bruised,  
 Caraway, bruised, each, half an ounce  
 Cardamom, bruised, two drachms  
 Sugar four ounces  
 Diluted alcohol three pints  
 Macerate for fourteen days, express, and filter. *U. S. Ph.*

Similar to the last, used in same cases, and in same doses.

#### TINCTURE OF SENNA AND GENTIAN.

R. Senna four ounces  
 Gentian, bruised,  
 Orange peel, bruised, each, one ounce  
 Proof spirit sixty-four ounces  
 Infuse for some days, often stirring, express, and filter. *Swed. iaur.*

#### INFUSION OF SENNA.

R. Senna one ounce  
 Coriander, bruised, one drachm  
 Boiling water one pint

Macerate for an hour, in a covered vessel, and strain. *U. S. Ph.*

Dose, about four fl. ounces.

#### COMPOUND INFUSION OF SENNA.

R. Senna half an ounce  
 Sulphate of magnesia  
 Manna, each, one ounce  
 Fennel seed one drachm  
 Boiling water half a pint  
 Macerate in a covered vessel till cool, and strain. Dose, one third, every four or five hours, till it operates. *Wood.*

R. Senna  
 Mint, each, ten drachms  
 Boiling water two pints  
 Macerate for an hour, strain, and add  
 Sulphate of magnesia eight ounces  
 Dose, two to four fl. ounces. *Guy's Hosp.*

#### INFUSION OF SENNA AND TAMARINDS.

R. Senna one to three drachms  
 Tamarinds one ounce  
 Coriander, bruised, one drachm  
 Brown sugar half an ounce  
 Boiling water eight fl. ounces  
 Infuse for four hours in a covered vessel, and strain. Dose, two to four fl. ounces. *Ed. Ph.*

#### INFUSION OF SENNA AND COFFEE.

R. Senna two drachms  
 Roasted coffee one drachm  
 Boiling water  
 Hot milk, each, three fl. ounces  
 Infuse for twelve hours, and strain. To be taken at once, in the morning. *Foy.*

R. Senna ten grains  
 Hot infusion of coffee  
 milk at will

Mix, and, when cool, strain, and add  
 Sugar sufficient  
 An agreeable purge for children. The amount of senna to be increased according to the age. *Guersant and Blake.*

R. Senna  
 Sulphate of magnesia  
 Coffee, roasted and ground, each, half an ounce  
 Boiling water four fl. ounces  
 Digest for half an hour, strain, and add  
 Sugar one and a-half ounces  
 As efficient as the "black draught," but much more agreeable. *Combes.*

R. Coffee, roasted and ground,  
 Senna, each, one ounce  
 Boiling water sufficient  
 Make an infusion, and evaporate to one ounce, and add

Simple syrup three fl. ounces

*Cumbe.*

INFUSION OF SENNA AND BUCKTHORN.

R. Senna two drachms  
Sulphate of soda half an ounce  
Boiling water four fl. ounces  
Syrup of buckthorn one fl. ounce  
Infuse, cool, and strain. *Ellis.*

INFUSION WITH TINCTURE OF SENNA.

R. Infusion of senna six fl. drachms  
Tincture of senna two fl. drachms  
Manna two drachms  
Mint water  
Distilled water, each, one fl. ounce and a-half

Mix. One-half at a dose; repeated, if it does not operate. *Abernethy.*

ANTHELMINTIC EMULSION.

R. Infusion of senna ten fl. drachms  
Syrup of buckthorn one fl. drachm  
Confection of scammony two scruples  
Copaiva thirty minims  
Spirit of turpentine six fl. drachms  
Mix, and make emulsion. Very efficient as an anthelmintic; to be taken early in the morning. *Med. Chirur. Rev.*

SENNÆ MIXTURE.

R. Infusion of senna one fl. ounce  
Tincture of jalap one fl. drachm  
Sulphate of magnesia four drachms  
Syrup of ginger one fl. drachm  
Mix. As a purgative draught. *Ainslie.*

INFUSION OF SENNA AND RHUBARB.

R. Senna six drachms  
Manna one ounce  
Bruised rhubarb  
cardamom, each, two drachms  
Boiling water one pint  
Infuse for one hour, and strain. Half a teacupful, every hour till it operates. *Ellis.*

INFUSION OF SENNA AND LEMON JUICE.

R. Senna one ounce and a-half  
Fresh lemon peel one ounce  
Lemon juice one fl. ounce  
Boiling water sixteen fl. ounces  
Infuse for two hours, and strain. *Beasley.*

SYRUP OF SENNA.

R. Senna two ounces  
Fennel seed, bruised, one ounce  
Boiling water one pint  
Sugar fifteen ounces  
Digest the senna and fennel seed in the

water, with a gentle heat, for an hour, strain, add the sugar, and form syrup. *U. S. Ph.*

Dose, one or two fl. drachms, to children.

FLUID EXTRACT OF SENNA.

R. Senna, coarsely powdered, thirty-two ounces  
Diluted alcohol four pints  
Water one gallon  
Sugar twenty ounces  
Oil of fennel sixty-four drops  
Hoffmann's anodyne sufficient

Mix the senna and alcohol, and let rest for a night; introduce into a displacement apparatus, and, by means of the water, obtain one and a-half gallons of fluid; evaporate this to twenty fl. ounces, and, whilst hot, add the sugar; strain, and, when cold, add the oil of fennel, dissolved in the Hoffmann anodyne. Dose, a tablespoonful, as a full purgative. *Duhamel.*

R. Senna, well bruised, sixteen ounces (Troy)  
Diluted alcohol sufficient  
Oil of caraway  
Oil of anise, each, sixteen drops  
Sugar twelve ounces

Macerate the senna in two pints of the diluted alcohol for twenty-four hours; displace slowly with same menstruum until four pints pass. Evaporate this in a water-bath to ten ounces, and add the sugar; when this is dissolved, remove from the fire, and add the oils, dissolved in diluted alcohol. *Duhamel, modified by Procter.*

R. Senna fifteen pounds  
Boiling water sufficient  
Exhaust the senna by process of displacement, evaporate the fluid to ten pounds, add molasses, ten pounds, previously boiled to a candy; add further, twenty-four fl. ounces of rectified spirit, and water sufficient to make fifteen pints. Dose, two drachms. *Duncan.*

SYRUP OF SENNA AND RHUBARB.

R. Syrup of senna four fl. ounces  
rhubarb two fl. ounces  
cinnamon one fl. ounce  
Mix. *Van Mons.*

SYRUP OF SENNA AND APPLES.

R. Fermented juice of apples four pounds  
Senna four ounces and a-half  
Digest for a night, express, and strain, then add  
Sugar three pounds  
Clarify, and form syrup. *Sard. Ph.*

## SERPENTARIA.

## VIRGINIA SNAKEROOT.

Virginia snakeroot is furnished by several species of *Aristolochia*, as the *A. serpentaria*, *A. hirsuta*, and *A. reticulata*, all natives of the United States, especially the western portions.

*Ser. Syst.* Gynand. hexand. *Nat. Syst.* Aristolochiaceae.

U. S. Dispens. 657. Griffith, Med. Bot. 529.

The root, which is the officinal portion, is very similar in the above-mentioned species. It is in tufts of slender, long, matted fibres, attached to a knotty, rugged head. These fibres are brittle, of a yellowish or brownish color, with an aromatic odor, and a pungent, bitter, camphorated taste. It is a stimulating tonic, and may also act as a diaphoretic, and diuretic. Dose, of the powder, is from ten to thirty grains.

## COMPOUND PILLS OF VIRGINIA SNAKE-ROOT.

R. Powdered Virginia  
snakeroot twenty-four grains  
Camphor forty-eight grains  
Conserve of roses sufficient  
Mix, and make eighteen pills; to be taken during the apyrexia, in malignant inter-mittents. *Foy.*

## ELECTUARY OF VIRGINIA SNAKEROOT.

R. Powdered Virginia snakeroot  
contrayerva  
Aromatic confection, each, one drachm  
Preserved ginger six drachms  
Syrup of parsley sufficient  
Make electuary. Half a drachm, every four hours, as a febrifuge. *Cadet.*

## INFUSION OF VIRGINIA SNAKEROOT.

R. Virginia snakeroot half an ounce  
Boiling water one pint  
Macerate for two hours in a covered vessel, and strain. *U. S. Ph.*

Dose, one to two fl. ounces, every two hours, in low forms of fever.

## COMPOUND INFUSION OF VIRGINIA SNAKEROOT.

R. Virginia snakeroot  
Contrayerva, each, five drachms  
Boiling water one pint  
Macerate for two hours, strain, and add  
Tincture of Virginia  
snakeroot two fl. ounces  
*Beasley.*

## TINCTURE OF VIRGINIA SNAKEROOT.

R. Virginia snakeroot,  
bruised, three ounces  
Diluted alcohol two pints  
Macerate for fourteen days, express, and filter. Dose, one to two fl. drachms.  
*U. S. Ph.*

## MIXTURE OF VIRGINIA SNAKEROOT AND ALLSPICE.

R. Comp. infus. of Virginia  
snakeroot twelve fl. ounces  
Tincture of allspice four fl. ounces  
Mix. Four spoonfuls, every six hours, in retrocedent and atonic exanthemata.  
*Saunders.*

## ACETATED MIXTURE OF VIRGINIA SNAKEROOT AND ALLSPICE.

R. Add vinegar, two fl. ounces, to sixteen fl. ounces of last-mentioned mixture. Dose, as above, in petechial typhus. *Swediaur.*

## INFUSION OF VIRGINIA SNAKEROOT AND ETHER.

R. Virginia snakeroot six drachms  
Boiling water eight fl. ounces  
Infuse, and strain; when cold, add  
Sulphuric ether two fl. drachms  
A tablespoonful, every hour. *Richter.*

## WINE OF VIRGINIA SNAKEROOT AND VANILLA.

R. Virginia snakeroot six drachms  
Vanilla two drachms  
Sherry wine sufficient  
Macerate for four hours, and add to each pint of the strained liquid,  
Camphor half a drachm  
Acetic ether one fl. drachm  
Syrup of cinnamon half a fl. ounce  
Dose, two spoonfuls an hour, in low states of the system. *Vogt.*

## TINCTURE OF VIRGINIA SNAKEROOT AND BALSAM OF PERU.

R. Virginia snakeroot six drachms  
Proof spirit five fl. ounces  
Water sufficient  
to obtain six fl. ounces of strained fluid; after one hour of infusion, add  
Camphor half a drachm  
Balsam of Peru one drachm  
Gum Arabic two drachms  
Make an emulsion, and add  
Acetic ether one fl. drachm  
A spoonful, every hour, in cases requiring stimulation. *Phabus.*

## SESAMUM.

## BENNE.

Two species of Sesamum, the *S. orientale*, and the *S. indicum*, afford leaves and seeds that are recognized as officinal. They are both natives of Asia, and are cultivated in the West Indies and in the southern parts of the United States.

*Ser. Syst.* Didyn. angios. *Nat. Syst.* Pedaliaceae.



Linn. Sp. Pl. 883, 884. Griffith, Med. Bot. 515.

The seeds are small, inodorous, and afford a bland oil, which may be used for all the purposes of olive oil. The leaves abound in a gummy substance which forms, with water, a rich, bland mucilage, useful in all cases requiring the use of demulcents.

#### INFUSION OF BENNE.

R. Fresh leaves of benne No. 2  
Cool water half a pint  
Infuse till a mucilage is formed. When dried leaves are used, the water should be hot. Wood.

### SIMARUBA.

#### SIMARUBA.

This is the bark of the root of *Simaruba officinalis* (amará), a large tree, native of Jamaica, and several parts of South America.

Ser. Syst. Decand. monog. Nat. Syst. Simarubaceæ.

Decand. i. 733. Griffith, Med. Bot. 198.

The bark is in long pieces, much rolled or quilled. It is fibrous, tough; of a grayish color externally, and yellowish within. It is inodorous, but extremely bitter. It has the properties of the pure bitters, but is apt to act on the stomach and bowels.

#### INFUSION OF SIMARUBA.

R. Simaruba bark, bruised, three drachms  
Boiling water one pint  
Macerate for two hours, and strain. Ed. Ph.

Dose, two fl. ounces.

#### COMPOUND INFUSION OF SIMARUBA.

R. Simaruba  
Wormwood, each, two drachms  
Boiling water one pint  
Infuse for fifteen minutes; strain, and add  
Syrup of gentian one fl. ounce  
To be taken in wineglassful doses. Foy.

### SINAPIS.

#### MUSTARD.

The seeds of two species of *Sinapis* are used in medicine, those of *S. nigra* and *S. alba*, both annual plants indigenous to many parts of Europe, and cultivated in our gardens.

Ser. Syst. Tetrady. siliq. Nat. Syst. Brassicacæ.

Linn. Sp. Pl. 933. Griffith, Med. Bot. 133.

Black mustard seeds are small, globular, of a deep brown color, when bruised having a peculiar smell, which becomes pungent, on the flour being mixed with water; their taste is bitterish and pungent. White mustard seeds are larger, of a yellowish color, and less pungent. These seeds act as a laxative; when in the

state of flour, they operate as an emetic, and when applied to the skin as a rubefacient, or even vesicant.

#### CATAPLASM OF MUSTARD.

R. Flour of mustard  
Flaxseed meal, each, half a pound  
Boiling vinegar sufficient  
Form a cataplasm. Lond. Ph.  
R. Flour of mustard two ounces  
Crumb of bread four ounces  
Common salt half an ounce  
Vinegar sufficient  
Mix. Ammon.

Used as rubefacients and revulsives.

#### COMPOUND CATAPLASM OF MUSTARD.

R. Flour of mustard eight ounces  
Powdered white pepper  
ginger, each, one drachm  
Oxymel sufficient  
Mix. Foy.  
R. Flour of mustard four ounces  
Yeast one ounce and a-half  
Muriate of ammonia one drachm  
Rue half an ounce  
Vinegar sufficient  
Mix. Span. Ph.

Used as above.

#### MUSTARD FOMENTATION.

R. Flour of mustard four ounces  
Hot water one pint  
Mix. As a rubefacient. Ellis.

#### MUSTARD GARGLE.

R. Flour of mustard one drachm  
Water of angelica  
hyssop, each, six fl. ounces  
Spirit of horseradish half a fl. ounce  
muriate of ammonia four fl. scruples  
Honey of roses four ounces  
Mix. Spielman.

#### MUSTARD FOOT BATH.

R. Flour of mustard four ounces  
Hot water sufficient  
Mix. Beral.

#### MUSTARD WHEY.

R. Milk one pint  
Water two pounds  
Bruised mustard-seed one ounce and a-half  
Boil till curdled, and strain. Beasley.  
R. Milk one pint  
Bruised mustard seed one ounce  
Boil till curdled, and strain, then add  
Sherry wine six fl. ounces  
A draught every hour or two, in low states of the system. Ellis.

## MUSTARD OINTMENT.

R. Flour of mustard three ounces  
 Oil of almonds half a fl. ounce  
 Lemon juice sufficient  
 Mix. In sun-burn, &c. *Frank.*

## COMPOUND MUSTARD OINTMENT.

R. Resin ointment one ounce  
 Soap half an ounce  
 Camphor two scruples  
 Flour of mustard one scruple  
 Mix. *Ferriar.*

## LOTION OF MUSTARD.

R. Mustard flour one ounce  
 Express the oil, and add to the mass  
 Oil of turpentine eight ounces  
 Macerate for three days, express, and strain. As a friction in paralysis.  
*Niemann.*

## VOLATILE OIL OF MUSTARD.

R. Bruised mustard seed twenty pounds  
 Cold water sufficient  
 Distil, and separate the oil. *Magendie.*  
 A very active rubefacient.

## TINCTURE OF OIL OF MUSTARD.

R. Volatile oil of mustard twelve parts  
 Alcohol two hundred and fifty parts  
 Dissolve. A good rubefacient.  
*Soubeiran.*

## LINIMENT OF MUSTARD.

R. Lard  
 Oil of almonds, each, twelve ounces  
 Yellow wax four ounces  
 Melt by a gentle heat, pour into a heated mortar, and when cooling add  
 Oil of lavender three ounces  
 Carbonate of ammonia half an ounce  
 Tincture of mustard two fl. ounces  
 Camphor one ounce  
 Triturate the ammonia with the oil; dissolve the camphor in the tincture, and add both to the melted mass, incorporating well. As an application to chilblains.  
*Beral.*

## SODIUM.

## SODIUM.

## SODII BROMIDUM.

## BROMIDE OF SODA.

R. Solution of bromide of iron at will  
 carbonate of soda sufficient  
 to precipitate; filter, and evaporate.  
*Magendie.*

## OINTMENT OF BROMIDE OF SODA.

R. Bromide of sodium thirty-four grains  
 Lard one ounce  
 Mix. As an application to obstinate cutaneous eruptions.

## SODII CHLORIDUM.

## COMMON SALT.

## POWDER OF COMMON SALT AND COCHINEAL.

P. Powdered common salt three drachms  
 cochineal fifteen grains  
 Mix, and divide into six powders. Anthelmintic. One every morning, and finally a dose of some purgative. *Rush.*

## COMPOUND POWDER OF COMMON SALT.

R. Common salt  
 Sulphate of magnesia, each, four ounces  
 Sulphate of potassa three ounces  
 Dry the salts separately, and pulverize; rub them well together, and keep in well-closed vessels. *Ed. Ph.*

As a laxative, in doses of two or three drachms in a half pint of carbonic acid water, early in the morning.

## BATH OF COMMON SALT AND GELATINE.

R. Common salt one pound  
 Water four pints  
 Pour the solution in a bath, and add  
 Flanders glue two pounds  
 Dissolved in  
 Water six pints  
 Recommended in serofulous affections.  
*Foy.*

## FOMENTATION OF COMMON SALT.

R. Common salt two ounces  
 Water six fl. ounces  
 Vinegar  
 Brandy, each, three fl. ounces  
 Mix. As a fomentation to bruises. *Vogt.*

## CLYSTER WITH COMMON SALT.

R. Common salt one ounce  
 Barley water half a pint  
 Add to the solution  
 Olive oil one fl. ounce  
*Mid. Hosp.*

R. Common salt one to two ounces  
 Tepid flaxseed infusion one pint  
 Dissolve, and add  
 Castor or olive oil  
 Molasses, each, two fl. ounces  
 One-half to be used at a time, the remainder in half an hour afterwards, if needed.  
*Ellis.*

CLYSTER OF COMMON SALT AND ARNICA.  
 R. Common salt half to one ounce  
 Infusion of arnica twelve fl. ounces  
 Said to be useful in apoplexy and paralysis.

*Foy.*

MIXTURE OF COMMON SALT AND LEMON JUICE.

R. Lemon juice at will  
 Common salt sufficient  
 to saturate, filter. A tablespoonful every hour, in apyrexia of intermittents. *Bories.*

OINTMENT OF COMMON SALT.

R. Common salt one to four drachms  
 Lard one ounce  
 Rub together till smooth. The strength to be gradually increased from one drachm of the salt to four. To inflamed eyelids.

*Tavignot.*

COMPOUND OINTMENT OF COMMON SALT.

R. Common salt one ounce and a-half  
 Simple cerate three ounces  
 Rose water ointment one ounce  
 Rub together. In tinea capitis, as a friction, morning and evening. *St. Marie.*

R. Common salt two drachms  
 Nut oil one drachm  
 Ox gall one ounce and a-half  
 Digest together for thirty-six hours, and triturate well. As a friction to scrofulous tumors. *Roncalli.*

## SODII SULPHURETUM.

SULPHURET OF SODA.

R. Flowers of sulphur two hundred parts  
 Carbonate of potassa, dried, two hundred and sixty-seven parts  
 Mix; heat in a matrass till melted; on cooling, detach, and keep in a well-closed vessel. *Cottureau.*

BATH WITH SULPHURET OF SODIUM.

R. Sulphuret of sodium ten ounces  
 Solution of common salt and gelatin four fl. ounces  
 Mix with the water of the bath, at the moment the patient enters it. In chronic cutaneous affections. *Cadet.*

MIXTURE OF SULPHURET OF SODIUM AND SAL AMMONIAC.

R. Sulphuret of sodium one drachm  
 Muriate of ammonia fifty grains  
 Dissolve each in six ounces of water, mix the solutions, after having filtered them. As a lotion in itch, &c. *Van Mons.*

LOTION WITH SULPHURET OF SODIUM.

R. Sulphuret of sodium three ounces

Sop one ounce and a-half  
 Dissolve in  
 Alcohol one pound  
 Add to the solution

Lime water eight pounds  
 In tinea capitis; the head to be washed with it every day, without removing the hair.

LINIMENT OF SULPHURET OF SODIUM.

R. Sulphuret of sodium four parts and a-half  
 Flowers of sulphur  
 Oil of almonds, each, one part and a-half  
 Lard six parts and a-half  
 Rub the powders with the lard, and gradually add the oil. As a lotion in chronic cutaneous diseases. *Van Mons.*

OINTMENT OF SULPHURET OF SODIUM.

R. Sulphuret of sodium three drachms  
 Lard one ounce and a-half  
 Rub well together. As an application in itch. *Svediaur.*

## SODA.

CAUSTIC SODA.

R. Solution of soda at will  
 Evaporate in a silver capsule, till it will solidify, on cooling; pour into moulds. *Guibourt.*

SOLUTION OF SODA.

R. Crystallized carbonate of soda twenty-five parts  
 Quicklime six parts  
 Boil with a sufficient quantity of water, strain, and evaporate, till it marks 36° of the areometer. *Guibourt.*

## SODÆ ACETAS.

ACETATE OF SODA.

R. Carbonate of soda at will  
 Distilled vinegar sufficient  
 to saturate; evaporate to sp. gr. 1.276, and set aside to crystallize. *Dub. Ph.*

Diuretic or cathartic, according to dose, from one scruple to four drachms.

COMPOUND PILLS OF ACETATE OF SODA.

R. Acetate of soda five drachms  
 Camphor  
 Nitre, each, two drachms  
 Conserve of elder berries sufficient  
 Mix, and make one hundred and twenty pills. Dose, two, morning and evening, to check the secretion of milk. *Bories.*



R. Acetate of soda  
 Powdered rhubarb  
 Inspissated ox gall, each, one drachm  
 Powdered gum Arabic half a drachm  
 Mix, and make pills of two grains. Dose,  
 ten to fifteen, twice a-day, as a laxative.  
*Augustin.*

## SODÆ ARSENIAS.

## ARSENIATE OF SODA.

R. White arsenic one hundred parts  
 Nitrate of  
 soda one hundred and sixteen parts  
 Pulverize, and introduce into a luted retort;  
 heat in a reverberatory furnace, break the  
 retort, dissolve the salt in water, add car-  
 bonate of soda, till the solution is neutral,  
 filter, evaporate, and crystallize. In inter-  
 mittents, and some diseases of the skin.  
 Dose, one-sixteenth to one-eighth of a  
 grain.  
*Cottureau.*

## SOLUTION OF ARSENIATE OF SODA.

R. Arseniate of soda six grains  
 Peppermint  
 water two fl. ounces and a-half  
 Add to the solution  
 Wine of cinnamon half a fl. ounce  
 Laudanum one fl. drachm  
 Dose, forty to fifty drops, four times a-day.  
*Heineke.*

R. Crystallized arseniate of soda one grain  
 Distilled water one fl. ounce  
 Dissolve. Dose, from a scruple to half a  
 drachm.  
*Foy.*

## SODÆ BORAS.

## BORAX.

## COMPOUND POWDER OF BORAX.

R. Powdered borax one drachm  
 saffron ten grains  
 Oil of cinnamon two drops  
 Mix, for two doses. As an emmena-  
 gogue.  
*Wedel.*  
 R. Powdered borax half an ounce  
 castor  
 saffron, each,  
 one drachm and a-half  
 Oil of cinnamon eight drops  
 amber six drops  
 Mix, and form powder. Dose, from a  
 scruple to half a drachm, to facilitate par-  
 turition, expel placenta, &c. *Wert. Ph.*

## LOZENGES OF BORAX.

R. Powdered borax two drachms  
 sugar half an ounce

Mucilage sufficient  
 Mix, and make thirty lozenges. One,  
 occasionally, in aphthous sore mouth.  
*Phabus.*

## COLLUTORY OF BORAX.

R. Borax two drachms  
 Water  
 Tincture of myrrh, each, one fl. ounce  
 Honey of roses two ounces  
 Mix. *Swediaur.*  
 R. Borax three drachms  
 Mucilage of quince  
 seeds eight fl. ounces  
 Honey of roses two ounces  
 Mix. *Bahi.*  
 R. Borax three drachms  
 Infusion of roses  
 one fl. ounce and a-half  
 Honey of roses two ounces  
 Mix. *Pringle.*

## COLLYRIUM OF BORAX.

R. Borax one drachm  
 Laudanum half fl. drachm  
 Rose water four fl. ounces  
 Mix. *Fricke.*  
 R. Borax half a drachm  
 Sugar one drachm  
 Rose water two fl. ounces  
 Mix. *Richard.*

## GARGLE OF BORAX.

R. Borax two drachms  
 Oxymel half fl. ounce  
 Water eleven fl. ounces  
 Mix. *Beasley.*  
 R. Borax one drachm  
 Tincture of myrrh half fl. ounce  
 Clarified honey one fl. ounce  
 Rose water four fl. ounces  
 Mix. *Ellis.*

In aphthous sore mouth, pyalism, &c.

## LOTION OF BORAX.

R. Borax half a drachm  
 Orange-flower water  
 Rose water, each, half fl. ounce  
 Dissolve. In pruritus. *Cadet.*

## HONEY OF BORAX.

R. Powdered borax one drachm  
 Clarified honey one ounce  
 Mix. *Lond. Ph.*  
 In aphtha.

## VINEGAR OF BORAX.

R. Distilled vinegar two fl. ounces  
 Borax one drachm  
 Dissolve. As lotion to ringworm of the  
 scalp. *Christison.*

## MIXTURE OF BORAX.

R. Borax	two drachms
Chamomile water	four fl. ounces
Syrup of orange peel	half fl. ounce
Liquid succinate of ammonia	two fl. drachms
Wine of opium	half fl. drachm

Mix. As an emmenagogue, and to facilitate parturition. Dose, two spoonfuls, every half hour. *Swed. iaur.*

## OINTMENT OF BORAX.

R. Powdered borax	fifteen grains
Fresh butter	two drachms
Rub together. To apply to scaly eruptions. <i>Radiu.</i>	
R. Powdered borax	two drachms
Rose ointment	one ounce
Mix. For chilblains.	<i>Cadet.</i>

## SODÆ CARBONAS.

## CARBONATE OF SODA.

## DRIED CARBONATE OF SODA.

R. Carbonate of soda at will  
Heat in a clean iron vessel, till perfectly dried, stirring constantly; rub into powder. *U. S. Ph.*

## SOLUTION OF CARBONATE OF SODA.

R. Carbonate of soda one ounce  
Distilled water one pint  
Dissolve. *Dub. Ph.*

Dose, one to two fl. ounces diluted, two or three times a-day, as antacid, &c.

## BICARBONATE OF SODA.

R. Crystallized carbonate of soda at will  
Saturate in proper apparatus, with carbonic acid.

R. Carbonate of soda one part  
Water two parts  
Dissolve, and pass a current of carbonic acid through the solution; let crystallize. *Cottrean.*

## EFFERVESCENT SOLUTION OF SODA.

R. Bicarbonate of soda one drachm  
Distilled water one pint  
Dissolve, and force into it more carbonic acid. Keep in a well-closed vessel. *Lond. Ph.*

## EFFERVESCENT POWDERS OF SODA.

R. Bicarbonate of soda one ounce, fifty-four grains  
Tartaric acid one ounce  
Powder each, separately, and divide each into sixteen powders, and preserve in papers of different colors. *Ed. Ph.*  
Known under the name of *Soda powders.*

## PILLS OF SODA AND RHUBARB.

R. Powdered rhubarb  
Dried carbonate of soda  
Extract of gentian, each, one scruple  
Calomel three grains  
Mix, and make twenty pills. Two occasionally, in dyspepsia. *Ellis.*

## PILLS OF SODA AND IPECACUANHA.

R. Carbonate of soda one drachm  
Bitter almonds half a drachm  
Ipecacuanha three grains  
Extract of madder twenty-four grains  
Water sufficient  
Beat into mass, and form sixty pills. Three morning and evening, in obstinate cutaneous diseases. *Foy.*

## CARBONATE OF SODA PILLS.

R. Extract of chamomile one drachm  
Powdered rhubarb one scruple  
Carbonate of soda half a drachm  
Oil of caraway ten minims  
Syrup of ginger sufficient  
Mix, and make twenty-four pills, two to be taken thrice a-day, in dyspepsia. *Ainslie.*

## PILLS OF CARBONATE OF SODA.

R. Dried carbonate of soda one drachm  
Soap two scruples  
Water sufficient  
Beat together, and make thirty pills. Three, thrice a-day. In calculous affections. *Ellis.*

## POWDER OF CARBONATE OF SODA AND MAGNESIA.

R. Bicarbonate of soda  
Magnesia  
Powdered ginger, each, one scruple  
Mix. A small teaspoonful, occasionally. *Ellis.*

## POWDER OF CARBONATE OF SODA AND RHUBARB.

R. Dried carbonate of soda one ounce  
Rhubarb four drachms  
Ginger one scruple  
Mix. In cardialgia, and dyspepsia. *Beasley.*

## POWDER OF CARBONATE OF SODA AND MERCURY.

R. Dried carbonate of soda five drachms  
Calomel one drachm  
Compound chalk powder ten drachms  
Mix. Dose, eight to sixteen grains. *Guy's Hosp.*

## LOZENGES OF BICARBONATE OF SODA.

R. Bicarbonate of soda one ounce  
Powdered gum Arabic half an ounce  
sugar three ounces

Mucilage  
Beat together, and form lozenges.

*Ed. Ph.*

Antacid and antilithic.

R. Bicarbonate of soda two ounces  
Sugar thirty-four ounces  
Oil of peppermint eighteen drops  
Mucilage thirty-six drachms  
Make lozenges of eighteen grains.

*Magendie.*

R. Bicarbonate of soda four parts  
Sugar sixty parts  
Chocolate eight parts  
Mucilage nine parts  
Make lozenges of eighteen grains.

*Beral.*

R. Bicarbonate of soda four drachms  
Sugar ten ounces  
Balsam of tolu one drachm  
Mucilage of tragacanth sufficient  
Make lozenges of twenty grains.

*Cadet.*

#### LOTION OF CARBONATE OF SODA.

R. Saturated solution of  
carbonate of soda one ounce  
Warm water two pints  
Mix. As a lotion in pruritus.

*Radix.*

#### MIXTURE OF CARBONATE OF SODA AND QUASSIA.

R. Carbonate of  
soda two drachms and a-half  
Rasped quassia one drachm and a-half  
Boiling water one pint  
Infuse for one hour, and strain. Two to  
four spoonfuls a-day, in dyspepsia.

*Augustin.*

#### MIXTURE OF CARBONATE OF SODA AND GENTIAN.

R. Carbonate of soda four scruples  
Compound infusion of gentian  
Cinnamon water, each, three fl. ounces  
Tincture of cardamom half a fl. ounce  
Mix. A tablespoonful, every two or three  
hours, in acidity and flatulence.

*Ellis.*

#### MIXTURE OF CARBONATE OF SODA AND COPAIBA.

R. Bicarbonate of soda one drachm  
Almond mixture four fl. ounces  
Copaiba two fl. drachms  
Laudanum sixty drops  
Mix. A tablespoonful occasionally, in  
acute pain in the bladder.

*Ellis.*

#### MIXTURE OF CARBONATE OF SODA AND CHAMOMILE.

R. Carbonate of soda one drachm  
Chamomile water three fl. ounces  
Syrup of gentian one fl. ounce

#### Tincture of Peruvian

bark one fl. drachm  
Mix. A spoonful, occasionally, in scrofula.  
*Foy.*

#### MIXTURE OF CARBONATE OF SODA AND IPECACUANHA.

R. Carbonate of soda twelve grains  
Wine of ipecacuanha twenty drops  
Laudanum four drops  
Distilled water one fl. ounce

Mix. A teaspoonful, every two or three  
hours, in pertussis of children.

*Ellis.*

#### DIURETIC SOLUTION WITH CARBONATE OF SODA.

R. Carbonate of soda three drachms  
Nitre one drachm and a-half  
Honey one ounce and a-half  
Decoction of couchgrass three pints  
Mix. A glassful every hour, in dropsy.

*Cadet.*

#### ANTI-EMETIC MIXTURE.

R. Bicarbonate of  
soda one drachm and a-half  
Powdered gum Arabic two drachms  
Oil of mint four drops  
White sugar two drachms  
Carbonic acid water four ounces  
Mix. A tablespoonful occasionally, to calm  
stomach, or prevent vomiting.

*Dewees.*

#### INJECTION OF CARBONATE OF SODA.

R. Carbonate of soda one drachm  
Soap two ounces  
Water twelve fl. ounces  
Advised as an injection, in cases of uric  
calculi.

*Bories.*

#### EMULSION WITH CARBONATE OF SODA.

R. Bicarbonate of soda sixteen grains  
Nitre four grains  
Syrup of marsh mallow  
violets, each, one fl. ounce  
Lettuce water two fl. ounces  
Emulsion of almonds twelve fl. ounces  
Mix. In nephritic complaints.

*Beral.*

#### OINTMENT OF CARBONATE OF SODA.

R. Carbonate of soda two drachms  
Wine of opium one fl. drachm  
Lard one fl. ounce  
Mix. In cutaneous affections, where there  
is pain.

*Soubéiran.*

R. Carbonate of soda  
Sulphuret of  
sodium, each, three drachms  
Lard one ounce  
Mix. In tinea capitis, having removed  
the crusts.

*Alibert.*



- R. Impure carbonate of soda three drachms  
Slaked lime two drachms  
Lard two ounces  
Mix. As the last. *Cadet.*
- R. Carbonate of soda two drachms  
Slaked lime one drachm  
Opium two grains  
Lard two ounces  
Mix. In prurigo. *Bielt.*

## SODÆ CHLORAS.

## CHLORATE OF SODA.

- R. Tartaric acid five ounces  
Boiling water two pints  
Dissolve, and add  
Carbonate of  
soda forty-five drachms and a-half  
Also, dissolve  
Chlorate of  
potassa four ounces, fifteen grains  
Boiling water sixteen fl. ounces  
Mix the solutions whilst boiling, filter,  
evaporate, and crystallize. *Hamb. Ph.*

## LOTION OF CHLORATE OF SODA.

- R. Chlorate of soda two drachms  
Water four fl. ounces  
In pruritus. *Darling.*

## GARGLE OF CHLORATE OF SODA.

- R. Chlorate of soda one to three scruples  
Barley water three ounces  
Honey of roses one ounce  
Mix. *Radius.*

SODÆ CHLORINATÆ LI-  
QUOR.

## SOLUTION OF CHLORIDE OF SODA.

- R. Chlorinated lime one pound  
Carbonate of soda two pounds  
Water one gallon and a-half  
Dissolve the carbonate of soda in three pints  
of the water, with the aid of heat. Add  
to the remainder of the water the chlorin-  
ated lime, in powder, in small portions, at  
a time. Set aside for some hours, to set-  
tle; decant clear solution, and add that  
of the carbonate of soda; decant, and  
strain through linen, and keep in opaque  
bottles. *U. S. Ph.*
- R. Carbonate of soda one part  
Water ten parts  
Dissolve, and pass a current of chlorine  
through the solution. *Guibourt.*

This is known as *Labarraque's Disinfecting So-  
lution*; it is used as a disinfectant, but is also

used internally, in doses of thirty drops to one  
fl. drachm, in low fevers, &c.

DILUTED SOLUTION OF CHLORIDE OF  
SODA.

- R. Solution of chloride  
of soda half a fl. drachm  
Distilled water four fl. ounces  
To be taken in spoonful doses, in the apy-  
rexia of intermittents. *Gouzee.*
- R. Solution of chloride soda one part  
Water twelve to sixteen parts  
As a lotion to foul and cancerous ulcers.  
*Foy.*

## GARGLE OF CHLORIDE OF SODA.

- R. Chloride of soda sixteen drops  
Hydromel one fl. ounce  
Distilled water seven fl. ounces  
Mix. *Beral.*

## SODÆ HYDROSULPHAS.

## HYDROSULPHATE OF SODA.

- R. Carbonate of soda ten ounces  
Distilled water one pint  
Dissolve, and mix with the solution  
Flowers of sulphur ten drachms  
Then pass an excess of sulphurous acid  
gas into the liquid; boil for a few minutes  
in a matrass; filter, and evaporate to one  
third, and set aside to crystallize.  
*Par. Cod.*

Used in diseases of the skin, in doses of ten  
grains to one drachm.

- R. Subcarbonate of soda  
seven hundred and thirty parts  
Sulphur forty-five parts  
Water fifteen hundred parts  
Mix the sulphur with a small portion of  
the water, and add the soda, dissolved in  
the rest. Introduce into two two-necked  
bottles, so as to fill them about two-thirds.  
Clean iron filings fifteen hundred parts  
Sulphuric acid  
(1.84) three thousand parts  
Put into a flask, let cool, place on a sand-  
bath, and convey the gas by rather large  
tubes, first into a washing bottle, and then  
through the solution in the two-necked  
bottles. Continue the process for ten or  
twelve hours, mix the contents of the two  
bottles, filter, and evaporate to crystalli-  
zation. *Legrip.*

Principally used in daguerreotyping, and as  
above.

## SYRUP OF HYPOSULPHITE OF SODA.

- R. Hyposulphite of soda one ounce  
Water twelve fl. ounces

Sugar twenty-three ounces  
Dissolve the salt in the water, add the sugar, and form syrup. Dose, from one to two ounces, twice a-day. *Mouchon.*

## SODÆ PHOSPHAS.

## PHOSPHATE OF SODA.

R. Powdered burnt bones ten pounds  
Sulphuric acid six pounds  
Carbonate of soda sufficient  
Mix the powdered bone with the acid in an earthen vessel, add a gallon of water, and stir. Digest for three days, occasionally adding a little water, then pour in a gallon of boiling water, strain; adding boiling water till the liquid passes almost tasteless. Let settle, decant, and boil down to a gallon. After settling, pour it into an iron vessel, heat, and gradually add the carbonate of soda dissolved in hot water, as long as there is effervescence, then filter, and let crystallize. More crystals will be obtained by adding carbonate of soda in excess, and again evaporating to crystallization. Keep in a well-stopped bottle. *U. S. Ph.*

A mild purgative, in doses of four drachms to one ounce.

R. Acid of phosphate of lime at will  
Add carbonate of soda to saturation, let settle, decant, evaporate, and crystallize. *Guibourt.*

## COMPOUND POWDER OF PHOSPHATE OF SODA.

R. Phosphate of soda two drachms  
Carbonate of soda one drachm  
Fennel sugar half an ounce  
Mix. Two to three teaspoonfuls a-day, to aid digestion. *Berands.*

## MIXTURE OF PHOSPHATE OF SODA.

R. Phosphate of soda half an ounce  
Decoction of carrageen six fl. ounces  
Syrup of orgeat half an ounce  
Mix. As a purgative. *Radius.*

R. Phosphate of soda  
Syrup of marsh mallow, each, half an ounce  
Water four fl. ounces  
Mix. As a purgative. *Augustin.*

## SODÆ SULPHAS.

## SULPHATE OF SODA.

## POWDER OF SULPHATE OF SODA AND TARTAR EMETIC.

R. Sulphate of soda two ounces

Tartar emetic  
Opium, each, one grain  
Gum Arabic  
Powdered liquorice, each, one drachm  
Mix, to be taken in water, in divided doses during the day, as a purgative and diuretic. *Swedjaur.*

## POWDER OF SULPHATE OF SODA AND NITRE.

R. Dried sulphate of soda eighteen drachms  
Nitre half a drachm  
Tartar emetic one grain  
Mix. One third in water or broth. *Beasley.*

## POWDER OF SULPHATE OF SODA AND OPIUM.

R. Sulphate of soda four scruples  
Powdered opium two grains  
Mix. In hemorrhagies and inflammations, after bleeding. *Radius.*

## COMPOUND PILLS OF SULPHATE OF SODA.

R. Sulphate of soda half a drachm  
Bitter almonds one drachm  
Ipecacuanha two grains  
Extract of madder sufficient  
Beat into mass, and make sixty pills.  
Three, morning and evening, in obstinate cutaneous affections. *Foy.*

## ELECTUARY WITH SULPHATE OF SODA.

R. Dried sulphate of soda half an ounce  
Pulp of tamarinds one ounce  
Syrup of lemon juice sufficient  
Mix. Two spoonfuls every hour, till it operates. *Phabus.*

## COMPOUND SOLUTION OF SULPHATE OF SODA.

R. Sulphate of soda fourteen drachms  
Acetate of potassa twenty-four grains  
Nitro eighteen grains  
Tartar emetic quarter of a grain  
Water two pints  
Dissolve, and filter; in wineglassfuls, in habitual constipation. *Soubciran.*

## EMULSION WITH SULPHATE OF SODA.

R. Sulphate of soda one ounce  
Oil of almonds one fl. ounce  
Yolk of eggs two  
Syrup of manna two fl. ounces  
Fennel water six fl. ounces  
Mix. Dose, two spoonfuls. *Phabus.*

## LEMONADE WITH SULPHATE OF SODA.

R. Sulphate of soda one ounce and a-half  
Lemon juice half an ounce  
Sugar three ounces

Water sixteen fl. ounces  
Mix. *Radius.*

## CLYSTER OF SULPHATE OF SODA.

R. Sulphate of soda one ounce  
Barley water six fl. ounces  
Dissolve, and add  
Oil of flaxseed two ounces  
*Swedliaur.*

## LOTION OF SULPHATE OF SODA.

R. Sulphate of soda six ounces  
Soap three drachms  
Lime water eighteen fl. ounces  
Rectified spirit six fl. drachms  
Mix. In chronic cutaneous affections.  
*Van Mons.*

## SUPPOSITORY OF SULPHATE OF SODA.

R. Sulphate of soda  
Soap, each, half an ounce  
Honey sufficient  
Mix, and make four suppositories.  
*Phœbus.*

## BISULPHATE OF SODA.

R. Dried sulphate of soda ten parts  
Sulphuric acid seven parts  
Heat gently in a crucible. Purgative in  
doses from two drachms to six. *Beasley.*

## BISULPHATE OF SODA AND MAGNESIA.

R. Bisulphate of soda at will  
Hot water sufficient  
Dissolve, add magnesia to saturation; filter, and crystallize. Laxative and diuretic, in doses from half a drachm to two drachms, several times a-day. *Van Mons.*

SODÆ ET POTASSÆ  
TARTRAS.

## TARTARIZED SODA OR ROCHELLE SALT.

R. Carbonate of soda one pound  
Cremor tartar sixteen ounces  
Boiling water five pints  
Dissolve the carbonate of soda in the water, and add gradually the cremor tartar; filter, and evaporate to a pellicle, and set aside to crystallize. Decant, and dry crystals.  
*U. S. Ph.*

Mild purgative, in doses of half an ounce to an ounce.

POWDER OF TARTARIZED SODA AND  
RHUBARB.

R. Tartarized soda ten grains  
Powdered rhubarb three to seven grains  
Mix. To be taken every morning for two weeks, in enlargements of the mesentery, in children.  
*Fordyce.*

## SEIDLITZ POWDERS.

R. Tartarized soda two drachms  
Bicarbonate of soda two scruples  
Mix, and dissolve in half a tumbler of water,  
Powdered tartaric acid twenty-five grains  
Dissolve in an equal quantity of water, as above, and mix; to be taken during effervescence.  
*Ellis.*

## MIXTURE OF TARTARIZED SODA.

R. Tartarized soda half an ounce  
Sulphate of potassa two drachms  
Infusion of succory one pint  
Oxymel of squill four fl. ounces  
Mix. Four spoonfuls, in the morning, with an hour's interval. In visceral obstructions.  
*St. Marie.*  
R. Tartarized soda one ounce  
Extract of henbane six grains  
Syrup of chamomile one fl. ounce  
Water six fl. ounces  
Mix. A spoonful every hour, in constipation.  
*Phœbus.*

## WHEY WITH TARTARIZED SODA.

R. Root and leaves of dandelion  
Fumitory  
Water-cress  
Chervil, each, a handful  
Clarified whey four pints  
Boil for five minutes, express, strain, and add  
Tartarized soda two drachms  
Honey six drachms  
To be taken every morning, early, in four doses, with the interval of an hour. Much praised in visceral obstructions.  
*St. Marie.*

## CLYSTER WITH TARTARIZED SODA.

R. Tartarized soda  
Extract of dandelion, each, five drachms  
Infusion of elder flowers five fl. ounces  
Dissolve.  
*Radius.*

## SPIGELIA.

## PINKROOT.

This is the root of *Spigelia marilandica*, a beautiful, herbaceous, perennial plant, a native of the southern and south-western parts of the United States.

*Sex. Syst.* Pentand. monog. *Nat. Syst.* Loganiaceæ.

*Linn. Sp. Pl.* 249. *Griffith, Med. Bot.* 466.

The root consists of numerous small, blackish fibres, forming a dense bunch, and arising from a short rhizome. The odor is faint, and the taste sweetish, bitter, and unpleasant. It is a powerful and certain anthelmintic, with some purgative



and narcotic properties. It is given in powder, in the dose of one to two drachms for an adult, ten to twenty grains to a child; to be repeated morning and evening, for a few days, and followed by an active purgative.

#### PINKROOT WITH CALOMEL.

R. Powdered pinkroot            ten grains  
Calomel                            four grains  
Mix. To be taken two mornings in succession, and on the afternoon of the second day, followed by a purgative. For children above four years of age. *Ellis.*

#### PINKROOT WITH SAVINE.

R. Powdered pinkroot  
                                 senna, each,    two scruples  
                                 savine           twelve grains  
Mix. One, every morning, for three days, followed by a purgative. *Ellis.*

#### INFUSION OF PINKROOT.

R. Pinkroot                        half an ounce  
Boiling water                    one pint  
Macerate for two hours, in a covered vessel, and strain. *U. S. Ph.*

Four fl. drachms to a fl. ounce, to children; four to eight fl. ounces to adults; morning and evening, followed by purgative.

#### COMPOUND INFUSION OF PINKROOT.

R. Pinkroot                        half an ounce  
Senna                                two drachms  
Manna                               one ounce  
Fennel-seed    two drachms to half an ounce  
Boiling water                    one pint  
Infuse. Half a wineglassful to a child, two years old, three times a-day. *Ellis.*

R. Pinkroot                        one ounce  
Bruised rhubarb                one drachm  
Senna                                two drachms  
Semen contra                    one drachm  
Manna                               two drachms  
Coriander                        half a drachm  
Boiling water                    one quart  
Infuse. A small teacupful, three times a-day. *Hays.*

#### SIMPLE FLUID EXTRACT OF PINKROOT.

R. Pinkroot                        sixteen ounces  
Diluted alcohol                sufficient  
Sugar                                twelve ounces  
Reduce the root to powder, macerate it in twice its weight of the diluted alcohol for twenty-four hours, then displace until four pints of tincture are obtained. Evaporate to ten fl. ounces, add the sugar, heat till dissolved: the whole to measure one pint. *W. Procter.*

#### COMPOUND FLUID EXTRACT OF SPIGELIA.

R. Bruised spigelia            four ounces  
Senna                                three ounces  
Savine                               one drachm  
Manna                               one ounce  
Sugar                                eight ounces  
Alcohol                            half a pint  
Boiling water                    two pints

On the pinkroot, senna, and savine pour the boiling water, and cover till cool. Then add the alcohol, and let macerate for twenty-four hours; transfer to a displacement apparatus, and, having displaced, evaporate the product, at a low heat, to twelve fl. ounces, in which dissolve the manna and sugar, and evaporate to one pint. One fl. ounce contains the strength of two drachms of pinkroot and a drachm and a-half of senna. Dose, for a child, a teaspoonful. *T. Estlack.*

R. Pinkroot                        sixteen ounces (Av.)  
Senna                                eight ounces  
Powdered sugar    twenty-four ounces  
Carbonate of potassa    one ounce  
Oil of caraway  
Oil of anise, each,            half a drachm  
Diluted alcohol                sufficient

Reduce the pinkroot and senna to a coarse powder, mix them with two pints of diluted alcohol, and macerate for two days. Put in a displacer, gradually add more diluted alcohol, until five pints have passed. Evaporate this in a water-bath to twenty fl. ounces, add the carbonate of potassa. Triturate the oils with a portion of the sugar, then with the whole, mix this with the evaporated fluid, and apply a gentle heat. The whole should measure two pints.

Dose, from half a teaspoonful, to a child of one to two years of age, to a tablespoonful for an adult. *W. Procter.*

#### SPIRÆA.

##### HARDHACK.

The U. S. Pharm. indicates the root of *Spiræa tomentosa* as officinal; but this portion is less active than the leaves and flowers. It is a beautiful shrub, with spikes of rose-colored flowers, and leaves of a dark green above, and white beneath.

*Sex. Syst.* Icosand. pent. *Nat. Syst.* Rosacæ.  
*Linn. Sp. Pl.* 701. *Griffith, Med. Bot.* 280.

The leaves and flowers are usually sold in packages; they have an odor not unlike that of black tea, and a bitter, very astringent taste.

The Hardhack is tonic and astringent, of considerable powers, and has the advantage of seldom being offensive to the stomach.

#### DECOCTION OF HARDHACK.

R. Hardhack one ounce  
Water one pint and a-half  
Boil down to one pint. Dose, from one to two fl. ounces.

#### EXTRACT OF HARDHACK.

R. Hardhack at will  
Water sufficient  
Exhaust by the process of displacement, evaporate the product by means of a water-bath to proper consistence. Dose, five grains to a scruple.

### SPONGIA.

#### SPONGE.

Sponge is the horny skeletons of small polymorphous marine animals, found attached to submerged rocks in the seas of most warm climates. As found in the shops, it is in the form of a light, porous mass, of a yellowish brown color, and very elastic, and readily imbibing fluids.

It is used for the purpose of cleansing the surfaces of wounds and ulcers, and, in a compressed state, to form tents to dilate sinuses, &c. When burnt, or reduced to charcoal, it has been given successfully in some diseases; probably owing its efficacy to the presence of iodine.

#### BURNT SPONGE.

R. Sponge at will  
Cut into pieces, separate any extraneous matters by beating, burn in a closed iron vessel till it becomes black and friable, then rub into fine powder. *U. S. Ph.*

Used in goitre, glandular swellings of a scrofulous nature, &c.; in doses of one to three drachms.

#### POWDER OF BURNT SPONGE.

R. Burnt sponge ten grains  
Powdered rhubarb four grains  
Mix. To be taken morning and evening. In scrofula. *Hulse.*

#### COMPOUND POWDERS OF BURNT SPONGE.

R. Burnt sponge six drachms  
Powdered cinnamon  
ginger, each, one drachm  
Sulphate of potassa two drachms  
Sugar five drachms  
Mix. *Greek Ph.*

Dose, a teaspoonful, three times a-day, in scrofula.

R. Burnt sponge four drachms  
Carbonate of magnesia  
Nitrate

White sugar, each, two drachms  
Make powder. Dose, as above. *Clarus.*

#### BOLUS OF BURNT SPONGE.

R. Burnt sponge one scruple  
Sulphate of potassa fifteen grains  
Balsam of sulphur ten drops  
Syrup sufficient  
Mix, and form two boluses. One, morning and evening, in scrofula. *Cadet.*

#### ELECTUARY OF BURNT SPONGE.

R. Burnt sponge half an ounce  
Syrup of orange  
peel one ounce and a-half  
Mix. Two to four spoonfuls a-day, in goitre, &c. *Radius.*

### STANNUM.

#### TIN.

#### POWDER OF TIN.

R. Tin at will  
Melt in an iron vessel; while cooling, stir till reduced to powder, which is then to be sifted. *U. S. Ph.*

As an anthelmintic, in doses of half an ounce, mixed with syrup or molasses, for several mornings, followed by an active purgative.

#### ELECTUARY OF TIN.

R. Powder of tin one ounce  
Extract of wormwood  
Powdered jalap, each, one drachm  
Compound syrup of chicory sufficient  
Mix. To be taken in twelve doses. *Foy.*

#### OINTMENT OF TIN.

R. Amalgam of tin half an ounce  
Rose ointment one ounce  
Red precipitate two drachms  
Oil of peppermint twenty drops  
Rub well together. Said to be useful in hemorrhoids. *Brera.*

### STANNI CHLORIDUM.

#### CHLORIDE OF TIN.

R. Tin at will  
Muriatic acid sufficient  
Dissolve, and crystallize. *Van Mons.*  
A violent purgative, in doses of two grains.

### STANNI SULPHURETUM.

#### SULPHURET OF TIN.

R. Tin three parts  
Sulphur one part  
Heat in a crucible, as long as a flame

arises, cool, and pulverize. As a vermifuge, in doses of ten to twenty grains.

*Van Mons.*

### COMPOUND POWDER OF SULPHURET OF TIN.

R. Sulphuret of tin                      four parts  
Powdered jalap                      two parts  
Assafetida                      one part  
Mix. Twelve to twenty grains, three times a-day, as a vermifuge.                      *Port. Ph.*

## STANNI OXIDUM.

### OXIDE OF TIN.

R. Tin    at will  
Keep it melted in an open vessel, constantly stirring till it is reduced into a gray powder, and sift.                      *Swed. iaur.*

Has been recommended in tape-worm, in doses of five or six grains, several times a-day.

## STAPHISAGRIA.

### STAVESACRE.

The seeds of *Delphinium staphisagria*, a beautiful annual plant, with terminal racemes of blue flowers; a native of the south of Europe.

*Sex. Syst.* Polyand. trigyn. *Nat. Syst.* Ranunculacææ.

*Linn. Sp. Pl.* 750. *Lindley, Med. Flor.* 9.

The seeds are large, somewhat triangular, of a brown color, a slight but unpleasant odor, and an acrid, bitter, nauseous taste. They are principally used to destroy lice in the hair, but also for other purposes.

### DECOCTION OF STAVESACRE.

R. Stavesacre                                      one ounce  
Water                                      one pint and a-half  
Boil down to two-thirds, and strain. As a lotion in itch.                      *Swed. iaur.*

### VINEGAR OF STAVESACRE.

R. Stavesacre                                      one part  
Vinegar                                      sixteen parts  
Macerate and express. As a wash to destroy vermin in the hair.                      *Beral.*

### OINTMENT OF STAVESACRE.

R. Stavesacre                                      two parts  
Lard                                      three parts  
Suet, each,                                      three parts  
Melt for some time, and strain. To destroy lice.                      *Bruns. Ph.*

## STRAMONIUM.

### STRAMONIUM.

Several parts of the *Datura stramonium* are used in medicine, as the root, leaves, and seeds. It is an annual herbaceous plant, a native of the

United States, having a rank, fetid odor, and bearing large, funnel-shaped, white flowers.

*Sex. Syst.* Pentand. monog. *Nat. Syst.* Solanacææ.

*Linn. Sp. Pl.* 255. *Griffith, Med. Bot.* 490.

The leaves have a fetid, narcotic odor, and a bitter, nauseous taste; the odor is lost on drying, but the taste remains. The seeds are small, reniform, of a brownish-black color, inodorous, of a bitter, somewhat acrid taste. Stramonium is a powerful narcotic, and is much used in a variety of affections, both internally and externally. The dose of the powdered leaves is from two to three grains; of the seeds, about a grain.

### PILLS OF STRAMONIUM SEEDS.

R. Powdered stramonium seeds ten grains  
camphor                      one drachm  
savine                      five scruples  
Extract of seneka                      four scruples  
Mix, and make pills of two grains. Dose, six, three times a-day. In rheumatism.                      *Vogt.*

### COMPOUND STRAMONIUM PILLS.

R. Extract of stramonium                      one drachm  
Soap                      two drachms  
Powdered gum Arabic                      one scruple  
liquorice                      two scruples  
Mucilage of tragacanth                      sufficient  
Make mass, and divide into sixty pills. One, night and morning, in asthma.                      *Halford.*

### EXTRACT OF STRAMONIUM SEEDS.

R. Powdered stramonium seeds one pound  
Diluted alcohol                      sufficient  
Rub the powder with half a pint of the alcohol, and introduce into a displacement apparatus, exhaust by means of alcohol. Distil the filtered liquor, and evaporate the residue to a proper consistence. *U. S. Ph.*  
Dose, a quarter to half a grain twice a-day, gradually increasing.

### EXTRACT OF STRAMONIUM LEAVES.

R. Stramonium leaves                      one pound  
Bruise in a stone mortar, with a little water. Express, and heat the juice to boiling; strain, and evaporate to proper consistence.                      *U. S. Ph.*

Dose, one grain, twice a-day, gradually increasing till it produces its effects.

### MIXTURE OF EXTRACT OF SEEDS OF STRAMONIUM.

R. Extract of stramonium seeds                      twelve grains  
Antimonial wine                      half a fl. ounce  
Dissolve. Ten drops, every three hours, in an infusion of balm, as an antispasmodic.                      *Hufeland.*

### ANTIRHEUMATIC LOTION.

R. Seeds of stramonium                      one ounce



Alcohol one pint  
 Infuse, strain, and add  
 Opium one ounce  
 Camphorated alcohol two fl. ounces  
 Mix. In frictions to the diseased part.  
*Pierquin.*

SYRUP OF STRAMONIUM.

R. Sugar fifteen ounces  
 Tincture of stramonium two ounces  
 Distilled water seven fl. ounces  
 Mix, and form syrup without heat, and strain.  
*Beral.*  
 R. Stramonium seeds one ounce  
 Vinegar one pound  
 Infuse for two days, strain, and add  
 Sugar two pounds  
 Dissolve.  
*Wurt. Ph.*

TINCTURE OF STRAMONIUM SEEDS.

R. Stramonium seeds, bruised, four ounces  
 Diluted alcohol two pints  
 Macerate for fourteen days, express, and filter.  
*U. S. Ph.*  
 Dose, from twenty to forty drops, two or three times a-day, increasing till it affects the system.

TINCTURE OF STRAMONIUM LEAVES.

R. Filtered juice of stramonium  
 Alcohol (.847) equal parts  
 Mix, and filter at the end of twenty-four hours.  
*Beral.*

ETHEREAL TINCTURE OF STRAMONIUM.

R. Stramonium seeds one part  
 Sulphuric ether four parts  
 Macerate for a week, and filter. Dose, two to three drops.  
*Soubiran.*

WINE OF STRAMONIUM.

R. Stramonium seeds two ounces  
 Wine eight fl. ounces  
 Alcohol one ounce  
 Macerate for some days, and filter. Dose, six drops to a fl. scruple.  
*Van Mons.*

OINTMENT OF STRAMONIUM.

R. Fresh stramonium leaves one pound  
 Lard three pounds  
 Wax half a pound  
 Boil the leaves in the lard, till they become crisp, then strain through linen, afterwards add the wax, previously melted, and stir till cold.  
*U. S. Ph.*

A valuable anodyne application to painful hemorrhoids and tumors.

R. Extract of stramonium one drachm  
 Lard one ounce  
 Rub together.  
*Giordano.*

OIL OF STRAMONIUM.

R. Stramonium leaves one part

Olive oil two parts  
 Heat till moisture is driven off, express, and strain.  
*Cottrean.*

STYRAX,  
 STORAX,

Is the concrete juice of *Styrax officinale*, a small tree, a native of the warm parts of Europe, Syria, &c. It is procured by making incisions in the bark.

*Ser. Syst.* Decand. monog. *Nat. Syst.* Styracaceæ.

*Linn. Sp. Pl.* 635. *Griffith, Med. Bot.* 437.

Several kinds of Storax are employed, that in grains, in mass, in calamita, and the liquid. It has a fragrant odor, and warm, aromatic taste. It is a stimulating expectorant. Dose, ten to twenty grains, twice a-day.

PURIFIED STORAX.

R. Storax at will  
 Alcohol sufficient  
 Dissolve, and strain; distil off alcohol by gentle heat, till the storax is of proper consistence.  
*U. S. Ph.*

COMPOUND PILLS OF STORAX.

R. Purified storax three drachms  
 Powdered opium  
 Saffron, each, one drachm  
 Beat together. Five grains contain one of opium.  
*Lond. Ph.*

SYRUP OF STORAX.

R. Purified storax three ounces  
 Alcohol one fl. ounce  
 Water one pint  
 Digest for twelve hours on a water-bath, and add  
 Sugar two pounds  
 Orange-flower water one fl. ounce  
 Mix.  
*Giordano.*

STRYCHNIA.

STRYCHNINE.

R. Nux vomica, rasped, four pounds  
 Powdered lime six ounces  
 Muriatric acid three fl. ounces  
 Alcohol  
 Diluted sulphuric acid  
 Solution of ammonia  
 Purified animal charcoal  
 Water, each, sufficient

Digest the nux vomica in two gallons of water, acidulated with a fl. ounce of muriatic acid, for twenty-four hours; boil for two hours, express, and strain through linen. Boil residue twice successively, in the same quantity of acidulated water, and proceed as before. Mix the decoctions,

and evaporate to consistence of thin syrup; add lime, previously mixed with a pint of water; boil for ten minutes, often stirring. Pour mixture into a double linen bag, and wash well with water; press, dry, and powder the precipitate. Treat repeatedly with boiling alcohol, till it loses its bitterness; mix the solutions, and distil off the alcohol in a water-bath; mix the residue with water; apply heat; add sufficient diluted sulphuric acid to dissolve the strychnia; treat with animal charcoal at boiling temperature; filter, evaporate, and crystallize. Dissolve the crystals in water; add solution of ammonia to precipitate the strychnia. Dry on bibulous paper.

*U. S. Ph.*

R. Powdered nux vomica      nine pounds  
Water  
Sulphuric acid, each,      sufficient  
Powdered quicklime      ten ounces  
Alcohol      fifteen pints

Mix the nux vomica with sufficient water to form a thin paste, and keep at the temperature of 70 or 80°, until gas ceases to form; express, and boil the residue in several successive portions of water, and express. Set liquid aside to deposit; decant, and evaporate to three gallons. Add nine ounces of quicklime, and after six hours contact, express strongly; heat the liquid to the boiling point, and add a slight excess of sulphuric acid; separate the liquid by decantation, and evaporate to four pints; add one ounce of quicklime, and act as before, adding this precipitate to the former; dry, and powder; digest in five pints of alcohol diluted with five pints of water, at a gentle heat; separate precipitate, and boil in five pints of alcohol twice; mix, and filter solutions; distil off four-fifths, and set aside to crystallize.

*Molyn.*

Very active and dangerous. Dose, one-sixteenth to one-tenth of a grain, at first carefully watching the effects, and slowly increasing.

#### COMPOUND POWDER OF STRYCHNINE.

R. Strychnine      one grain  
Black oxide of iron  
Sugar  
Gum Arabic, each,      one drachm  
Rub well together, and divide into twelve or sixteen powders. *Brera.*

#### PILLS OF STRYCHNINE.

R. Strychnine      two grains  
Conserve of roses      thirty-six grains  
Mix, and make twenty-four pills. One

to two, morning and evening, in paralysis. *Magendie.*

R. Strychnine      two grains  
Extract of valerian      sufficient  
Mix well, and make thirty-two pills. One early in the morning, for five days, then one, morning and evening, in amaurosis. *Furnari.*

#### STIMULANT PILLS.

R. Strychnia      one grain  
Acetic acid      one minim  
Crumb of bread      one scruple  
Mix thoroughly, and make ten pills. One to be taken every six hours, in the paralysis arising from lead.

*A. T. Thomson.*

#### TINCTURE OF STRYCHNINE.

R. Strychnine      three grains  
Alcohol (.842)      one fl. ounce  
Dissolve. Dose, from six to twenty-four drops, twice a-day. *Magendie.*

#### MIXTURE OF STRYCHNINE.

R. Strychnine      one grain  
Distilled water      two fl. ounces  
White sugar      two drachms  
Acetic acid      three drops  
Mix. One fl. drachm contains one-sixteenth of a grain. *Beasley.*

#### OINTMENT OF STRYCHNINE.

R. Strychnine      sixteen grains  
Lard      one ounce  
Rub well together. As a friction on paralyzed parts. *Bouchardat.*

#### STRYCHNIA COLLYRIUM.

R. Strychnia      two grains  
Diluted acetic acid      one drachm  
Distilled water      one ounce  
Mix. A few drops of this applied to the eye, several times a-day, is stated to be beneficial in amaurosis. *Henderson.*

#### LINIMENT OF STRYCHNINE.

R. Strychnine      thirty grains  
Olive oil      one ounce and a-half  
Rub well together. Ten drops to be rubbed on the temples, in amaurosis. *Neligan.*

#### STRYCHNINÆ ACETAS.

##### ACETATE OF STRYCHNINE.

R. Strychnine      at will  
Acetic acid      sufficient  
to dissolve; evaporate, and crystallize.

##### SOLUTION OF ACETATE OF STRYCHNINE.

R. Acetate of strychnine      three grains  
Alcohol      one fl. drachm

Cinnamon water seven fl. drachms  
Dissolve. Five drops twice a-day.

*Radius.*

R. Strychnine one grain  
Distilled vinegar one fl. drachm  
water nine fl. drachms

Mix. Dose, one fl. drachm containing one-tenth of a grain. *A. T. Thomson.*

TINCTURE OF ACETATE OF STRYCHNINE.

R. Acetate of strychnine one grain and a-half  
Alcohol half fl. ounce

Dissolve. Twenty to thirty drops, twice a-day, in syphilitic pains in the bones.

*Radius.*

STRYCHNIÆ MURIAS.

MURIATE OF STRYCHNINE.

R. Strychnine at will  
Muriatic acid sufficient  
to saturate; evaporate, and crystallize.

*Cottreau.*

STRYCHNIÆ IODAS.

IODATE OF STRYCHNINE.

R. Strychnine at will  
Iodic acid sufficient  
to saturate; dissolve in boiling alcohol, filter, and crystallize.

*Magendie.*

R. Solution of muriate of strychnine at will  
Solution of iodate of soda sufficient  
to precipitate; treat as the last.

*Jourdan.*

Dose, one-eighth of a grain, in pill. One, morning, and evening, gradually increasing. In paraplegia.

STRYCHNIÆ NITRAS.

NITRATE OF STRYCHNINE.

R. Strychnine at will  
Nitric acid sufficient  
to saturate, with the aid of heat; filter while hot, evaporate, and crystallize. More active than strychnine.

*Giordano.*

OINTMENT OF NITRATE OF STRYCHNINE.

R. Nitrate of strychnine one grain and a-half  
Lard two drachms  
Rub well together.

*Wendt.*

STRYCHNIÆ SULPHAS.

SULPHATE OF STRYCHNINE.

R. Strychnine at will

Sulphuric acid sufficient  
to saturate at a gentle heat; filter, whilst hot, evaporate, and crystallize. *Cottreau.*

SUCCINUM,

AMBER,

Is a solid body, of various shades of yellow, translucent, or opaque, of a vitreous fracture, brittle, tasteless, inodorous, except when heated, then exhaling a peculiar, penetrating, but rather agreeable smell. It is a resin found in a fossil state, in various parts of the world. Not much used in medicine, but extensively employed in the arts.

FUMIGATING POWDER.

R. Amber  
Mastic  
Juniper berries, each, four parts  
Cascarilla one part  
Powder, and mix. *Scherf.*

OIL OF AMBER.

R. Powdered amber at will  
Mix, with equal weight of sand in a glass retort, to fill not more than one-half of it. Distil on a sand-bath, gradually increasing the heat. Separate the oil from the product, and keep in well-closed bottles.

*U. S. Ph.*

PURIFIED OIL OF AMBER.

R. Oil of amber one pint  
Water six pints  
Mix in a glass retort; distil till four pints of water, with the oil, have passed over; separate the oil.

*U. S. Ph.*

Stimulant and antispasmodic; in doses of five to fifteen drops; also used externally.

ARTIFICIAL MUSK.

R. Oil of amber one part  
Add gradually  
Nitric acid two parts  
Let react for twenty-four hours, and wash in cold water.

*Van Mons.*

R. Strong nitric acid three drachms and a-half  
Add very gradually to

Rectified oil of amber one drachm  
In a large, glass vessel. When action has ceased, permit to rest for twenty-four hours, remove the upper or resinous portion, and wash it well in cold and then in hot water, till all acid is removed.

*Williams.*

Useful in those cases in which musk is applicable.

TINCTURE OF ARTIFICIAL MUSK.

R. Artificial musk one part  
Alcohol eight parts



Dissolve with a gentle heat. Forty drops as an antispasmodic. Useful in doses of five or six drops, in pertussis in children.

*Van Mons.*

R. Artificial musk two drachms  
Alcohol eight ounces  
Dissolve, and filter. Dose, from twenty-five drops to a drachm, according to age.

*Williams.*

#### EMULSION OF ARTIFICIAL MUSK.

R. Artificial musk twelve grains  
Blanched almonds No. four  
Triturate well together, and gradually add Water six ounces  
Dose, for a child of two years, two teaspoonfuls. Valuable in whooping-cough.

*Hufeland.*

#### LINIMENT OF OIL OF AMBER.

R. Oil of amber two fl. drachms  
olives half fl. ounce  
Laudanum two fl. drachms  
Brandy three fl. ounces

Mix. To be rubbed between the shoulders, in pertussis and infantile convulsions.

*Parrish.*

R. Oil of amber  
cloves, each, half an ounce  
olives one ounce

Mix. *Beasley.*

R. Oil of amber one drachm  
nutmeg two drachms and a-half

Mix. As a friction in hysteria, and cephalalgia. *Wurt. Ph.*

#### TINCTURE OF AMBER.

R. Powdered amber one ounce  
Diluted alcohol sixteen ounces  
Digest for six days, and filter. *Par. Cod.*

Dose, forty to sixty drops.

#### ETHEREAL TINCTURE OF AMBER.

R. Oil of amber one part  
Sulphuric ether fifteen parts  
Mix. Dose, fifteen to thirty drops. *Beral.*

#### ALKALINE TINCTURE OF AMBER.

R. Powdered amber two ounces  
Solution of carbonate of potassa half an ounce  
Diluted alcohol eight fl. ounces  
Digest for some days, and filter. Dose, twenty to forty drops. *Spelman.*

#### BALSAM OF AMBER.

R. Essence of amber two fl. ounces  
myrrh one fl. ounce  
turpentine half fl. ounce

Mix. Digest at a gentle heat. As an antispasmodic friction. *Radius.*

R. Powdered amber one ounce  
Oil of turpentine two parts  
Digest at gentle heat. *Bate.*

#### EAU DE LUCE.

R. Oil of amber two drachms  
White soap  
Balsam of Mecca, each, fifteen grains  
Rectified spirit six ounces  
Macerate for eight days, and filter. To one fl. drachm of this add two fl. ounces of water of ammonia. Used in the treatment of snake bites, as an antispasmodic, &c. *Redwood.*

#### MIXTURE OF OIL OF AMBER.

R. Oil of amber eighty drops  
Gum Arabic  
Sugar, each, half an ounce  
Tincture of tolu two fl. drachms  
Distilled water four fl. ounces  
Mix. A tablespoonful, every two or three hours, in spasmodic cough. *Ellis.*

### SULPHUR.

#### SULPHUR.

Three official forms of Sulphur are admitted in the U. S. Ph. Sulphur, or *Sublimed Sulphur*, *Washed Sulphur*, and *Precipitated Sulphur*.

#### SUBLIMED SULPHUR.

R. Sulphur at will  
Heat at a temperature of 500° to 600°, in an earthen vessel, and condense the fumes in a large receiver.

#### WASHED SULPHUR.

R. Sublimed sulphur at will  
Wash thoroughly with water, as long as any acidity is present.

#### PRECIPITATED SULPHUR.

R. Sublimed sulphur one pound  
Lime one pound and a-half  
Water two gallons  
Muriatic acid sufficient  
Slake the lime with a little water, mix it with the sulphur, add the rest of the water, boil for two or three hours, occasionally adding water, and filter. Dilute the liquid with an equal bulk of water, add sufficient muriatic acid to precipitate the sulphur. Wash the precipitate, till the washings are tasteless, and dry it.

#### POWDER OF SULPHUR AND CAMPHOR.

R. Washed sulphur  
Sugar, each, half a drachm  
Camphor six grains  
Mix, and divide into six powders. One, every hour in mercurial cachexy. *Radius.*

## POWDER OF SULPHUR AND LIQUORICE.

R. Flowers of sulphur one drachm  
 Powdered fennel seed two drachms  
 liquorice four drachms  
 Mix. A teaspoonful occasionally, in catarrh. *Phabus.*

## POWDER OF SULPHUR AND ORRIS ROOT.

R. Washed sulphur eight to eighteen grains  
 Sugar of milk one scruple  
 Powdered orris root one to three drachms  
 Mix, and divide into eight powders. One, every two hours, in milk, in the catarrh of children. *Kopp.*

## COMPOUND POWDER OF SULPHUR.

R. Flowers of sulphur one ounce  
 Powdered fennel seed one drachm  
 gum Arabic  
 sugar, each, two ounces  
 Mix. Dose, half a drachm to a drachm, in dysentery. *Van Mons.*

R. Flowers of sulphur half an ounce  
 Powdered liquorice one ounce  
 orris root two drachms  
 benzoin one scruple  
 sugar two ounces

## Oil of fennel

anise, each, ten drops  
 Mix. Dose, from a scruple to half a drachm. *Wert. Ph.*

R. Flowers of sulphur two drachms  
 Cremor tartar six drachms  
 Powdered fennel seed one drachm  
 sugar half an ounce  
 Mix. A spoonful two or three times a-day, as a laxative, in constipation. *Radius.*

R. Sublimed sulphur one drachm and a-half  
 Brown sugar  
 Cremor tartar, each, two drachms  
 Mix, and make powder. To be taken twice a-day, in itch, impetigo, or acne. *Ainslie.*

## POWDER OF SULPHUR AND CREMOR TARTAR.

R. Sublimed sulphur half an ounce  
 Cremor tartar one ounce  
 Mix with molasses. A teaspoonful, four or five times a-day, to children, in cutaneous affections. *Ellis.*

## POWDER OF SULPHUR AND MAGNESIA.

R. Precipitated sulphur  
 Magnesia, each, half an ounce

Mix. A teaspoonful, four or five times a-day, as an aperient. *Ellis.*

## POWDER OF SULPHUR AND ANTIMONY.

R. Washed sulphur two drachms  
 Golden sulph. of antimony  
 Camphor, each, eight grains  
 Sugar two scruples  
 Mix, and make a powder. *Hufeland.*

As a diaphoretic.

## SULPHUR ELECTUARY.

R. Washed sulphur  
 Cremor tartar, each, half an ounce  
 Simple or lemon syrup sufficient  
 Mix, and make electuary. To keep the bowels open in hemorrhoids of pregnant women. A teaspoonful, at night. *Dewees.*

R. Precipitated sulphur one drachm and a-half  
 Orange marmalade half an ounce  
 Pulp of tamarinds two ounces  
 Sugar one ounce  
 Mix. Three spoonfuls a-day, in hemorrhoids. *Radius.*

R. Washed sulphur one ounce and a-half  
 Confection of senna two ounces  
 Nitre one drachm  
 Syrup of orange peel sufficient  
 Mix. One, or two drachms, once or twice a-day, in hemorrhoidal affections. *Ellis.*

R. Flowers of sulphur  
 Burnt sponge, each, two drachms  
 Prepared oyster shell one drachm  
 Conserve of roses two ounces and a-half  
 Mix. A teaspoonful, three or four times a-day, as an alterative, in scrofulous affections. *Vogt.*

## COMPOUND ELECTUARY OF SULPHUR.

R. Sublimed sulphur half an ounce  
 Cremor tartar one drachm and a-half  
 Confection of senna one ounce  
 Simple syrup sufficient  
 Mix, and make electuary. A teaspoonful, at bedtime, for hemorrhoids. *Ainslie.*

## LINCTUS WITH SULPHUR.

R. Washed sulphur half a drachm  
 Flowers of benzoin fifteen grains  
 Syrup of violets one ounce and a-half  
 Oxymel one ounce  
 Mix. A spoonful, occasionally, as an expectorant. *Bories.*

## ELECTUARY OF SULPHUR.

R. Washed sulphur half an ounce  
 Confection of senna one ounce and a-half

Syrup sufficient  
 Mix. A teaspoonful, morning and even-  
 ing, in hemorrhoids. *Lewis Disp.*

## SULPHUR MIXTURE.

R. Precipitated sulphur two drachms  
 Laudanum twenty drops  
 Water four fl. ounces

Mix. Three spoonfuls, a-day, in mercu-  
 rial disease. *Radius.*

R. Precipitated sulphur two drachms  
 Fennel water three fl. ounces  
 Cinnamon water one fl. ounce  
 Syrup of opium half a fl. ounce

Mix. A spoonful every two hours, in  
 diabetes mellitus. *Augustin.*

R. Washed sulphur one scruple  
 Mucilage seven drachms  
 Sugar half an ounce  
 Rose water one fl. drachm

A teaspoonful, every hour, in pectoral af-  
 fections of young children. *Phæbus.*

## BALSAM OF SULPHUR.

R. Washed sulphur two ounces  
 Olive oil sixteen fl. ounces

Heat the oil, gradually stir in the sul-  
 phur till it combines. *Lond. Ph., 1824.*

Used as an external application to foul ulcers.

## ETHEREAL BALSAM OF SULPHUR.

R. Terebinthinated balsam of sulphur  
 Sulphuric ether, each, half a drachm

Dippel's animal oil six drachms  
 Mix. In flatulent colic. *Augustin.*

## TEREBINTHINATED BALSAM OF

## SULPHUR.

R. Flowers of sulphur one part  
 Oil of turpentine four parts

Dissolve on a sand-bath. As an external  
 application to ulcers, &c. *Van Mons.*

## OINTMENT OF SULPHUR.

R. Flowers of sulphur one pound  
 Lard two pounds

Mix. *U. S. Ph.*

As an application in itch.

## COMPOUND SULPHUR OINTMENT.

R. Flowers of sulphur one ounce  
 Ammoniated mercury

Benzoic acid, each, one drachm  
 Oil of bergamot

Sulphuric acid, each, one fl. drachm  
 Nitrate of potassa two drachms  
 Lard half a pound

Melt the lard, add the other ingredients,  
 and stir till cold. *U. S. Ph.*

As an application in itch, tinea capitis, crusta  
 lactea, &c.

R. Sulphur half a pound

Powdered white hellebore two ounces

Nitrate of potassa one drachm

Soft soap half a pound

Lard one pound and a-half

Oil of bergamot thirty minims

Mix. *Lond. Ph.*

Used as the last, but more irritating.

R. Flowers of sulphur two parts

Carbonate of potassa one part

Lard eight parts

Mix. In itch. *Foy.*

R. Flowers of sulphur two ounces

Powdered muriate of

ammonia two drachms

Oil of mint one drachm

Lard four ounces

Mix. In cases of inveterate itch. *Dewees.*

R. Washed sulphur ten ounces

Carbonate of potassa half an ounce

Cinnabar one ounce

Oil of bergamot half a fl. ounce

Lard ten ounces

Mix. In itch. *Bateman.*

## OINTMENT OF SULPHUR AND CAMPHOR.

R. Washed sulphur half a drachm

Camphor one scruple

Rose ointment one ounce

Oil of roses three drops

Mix. As an application in psorophthalmia.

*Allen.*

## OINTMENT OF SULPHUR AND SOAP.

R. Flowers of sulphur one part

Soft soap two parts

Mix. In itch. *Radius.*

## OINTMENT OF SULPHUR AND ZINC.

R. Flowers of sulphur two ounces

Sulphate of zinc

Oil of bayberries, each, one ounce

Lard six ounces

Mix. In tinea capitis. *Sax. Ph.*

R. Flowers of sulphur four parts

Oxide of zinc three parts

Oil of bayberries six parts

Lard twelve parts

Mix. As last. *Van Mons.*

## LINIMENT OF SULPHUR AND SOAP.

R. Soap three ounces

Water six ounces

Dissolve with a gentle heat, and add

Flowers of sulphur three ounces

Used as a lotion in itch. *Lugol.*

## CERATE OF SULPHUR.

R. Flowers of sulphur two parts

Cold cream seven parts

Oil of almonds one part

Mix. *Par. Cod.*



SULPHURIS CARBURETUM,  
OR,  
CARBONIS SULPHURETUM.

## SULPHURET OF CARBON.

R. Sulphuret of iron eleven parts  
Charcoal three parts

Mix, and introduce into a stone retort, furnished with a glass tube, dipping into water. Separate the sulphuret which collects at the bottom of the water in the recipient, and redistil it from chloride of lime. *Van Mons.*

R. Sulphur at will  
Pass the vapor slowly through charcoal, heated to redness, in a porcelain tube, collect the product in a receiver, and purify by another distillation. *Cottureau.*

As a sudorific in rheumatism; two to three drops. Also used externally.

## DROPS OF SULPHURET OF CARBON.

R. Sulphuret of carbon one fl. drachm  
Alcohol half fl. ounce

Mix. Four to six drops, every two hours, in rheumatism. *Wutzer.*

## MIXTURE OF SULPHURET OF CARBON.

R. Sulphuret of carbon one scruple  
Cow's milk six fl. ounces  
Sugar two drachms

Mix. A tablespoonful four times a-day, in hypertrophy of the stomach and contraction of the œsophagus. *Clarus.*

## LINIMENT OF SULPHURET OF CARBON.

R. Sulphuret of carbon half an ounce  
Oil of almonds one ounce

Mix. As an embrocation in gouty nodes. *Mansfield.*

R. Sulphuret of carbon one drachm  
Camphorated oil one ounce

*Beasley.*

R. Camphor two drachms  
Dissolve in

Sulphuret of carbon half fl. ounce

And add

Alcohol one fl. ounce

As an embrocation in rheumatism.

*Lampadius.*

R. Sulphuret of carbon two fl. drachms  
Camphorated ammon.

liniment two fl. ounces

Mix. As an embrocation, in rheumatism. *Wutzer.*

## SULPHURIS IODIDUM.

## IODIDE OF SULPHUR.

R. Iodine four ounces  
Sulphur one ounce

Rub the iodine and sulphur together, in a porcelain or glass mortar. Put the mixture into a matrass, close the orifice slightly, and apply a gentle heat, so as to darken the mass, but not melt it. When uniformly dark, increase the fire so as to melt the iodine, then incline the vessel in different directions, to return to the mass any portions that have been condensed on the surface of the vessel; lastly, allow to cool, break the matrass, and put the iodide into well-stopped bottles. *U. S. Ph.*

Used as an external application, in cutaneous affections.

## POWDER OF IODIDE OF SULPHUR.

R. Powdered iodide of sulphur ten grains  
Powdered gum Arabic sufficient

Mix, and divide into six powders. One, morning and evening, for an adult. Useful in porrigo, prurigo, impetigo, and tinea, also in nocturnal incontinence of urine. *Escolar.*

## OINTMENT OF IODIDE OF SULPHUR.

R. Iodide of sulphur five parts  
Lard ninety-six parts

Mix. *Foy.*

The strength is to be varied according to circumstances.

## T

## TABACUM.

## TOBACCO.

Tobacco is the leaves of *Nicotiana tabacum*, an annual, herbaceous plant, a native of the warmer parts of America, and extensively cultivated in the United States, and elsewhere. There are

numerous varieties, but, in all of them, the leaves are the part that is used.

*Sex. Syst.* Pentand. monog. *Nat. Syst.* Solanaceæ.

*Linn. Sp. Pl.* 258. *Griffith, Med. Bot.* 493.

Tobacco, as found in commerce, is in bundles of yellowish brown, dried leaves, having a narcotic,

penetrating odor, and a bitterish, nauseous, acid taste. It has the powers of a sedative narcotic, with those of an emetic and diuretic; it also acts as an erhine and sialogogue. In large doses it acts as a poison. It is employed to produce relaxation in spasmodic affections, as a diuretic, &c.

#### COMPOUND POWDER OF TOBACCO.

R. Powdered tobacco  
valerian, each, two drachms  
Oil of lavender  
marjoram, each, three drops  
Mix. Used as a cephalic snuff. *Boeli.*  
R. Powdered tobacco two grains  
Tartar emetic one grain  
Powdered sugar two drachms  
gum Arabic half a drachm  
Mix, and form twenty powders. One, every two hours, in hooping-cough. *Petschaft.*

#### EXTRACT OF TOBACCO.

R. Cut tobacco four ounces  
Water two pints  
Boil, and let simmer for two or three hours, strain, and evaporate to consistence of extract. For external use in neuralgia.  
*Chippendale.*

#### PILLS OF TOBACCO.

R. Extract of tobacco one drachm  
liquorice one ounce  
Vinegar of squills sufficient  
Mix, and make one hundred and eighty pills.  
Dose, one to three in dropsy. *Van Mons.*

#### WINE OF TOBACCO.

R. Tobacco, cut, one ounce  
Wine one pint  
Macerate for fourteen days, express, and filter. *U. S. Ph.*

From ten to twenty minims, as a diuretic.

#### TINCTURE OF TOBACCO.

R. Cut tobacco one ounce  
Diluted alcohol one pint  
Digest for three days, express, and filter.  
Dose, as the wine. *Augustin.*

#### INFUSION OF TOBACCO.

R. Tobacco one drachm  
Boiling water one pint  
Macerate for an hour, in a covered vessel, and strain. *U. S. Ph.*

Used as an enema; one-half only should be used at a time; employed in strangulated hernia, obstinate colic, &c. Great caution must be used, as dangerous effects have followed its administration.

#### MIXTURE OF TOBACCO.

R. Tobacco one drachm  
Boiling water two ounces  
Infuse for twenty minutes, filter, and add

Alcohol two fl. drachms  
Thirty to fifty drops, twice or thrice a-day, in hydrothorax and dysuria. *Fowler.*

#### LOTION OF TOBACCO.

R. Tobacco two drachms to half an ounce  
Boiling water one pint  
Infuse. As a lotion in psora, but must be used with great caution. *Ellis.*

#### CATAPLASM OF TOBACCO.

R. Tobacco one ounce  
Beat up with water, and form cataplasm. To be applied to throat in croup, and spasm of glottis, &c. *Ellis.*

#### OINTMENT OF TOBACCO.

R. Fresh tobacco, cut, one ounce  
Lard one pound  
Boil over a gentle fire, till the leaves become friable, strain through linen.

*U. S. Ph.*

In irritable ulcers, tinea capitis, &c. To be used with caution.

R. Powdered tobacco  
Flowers of sulphur, each, four ounces  
Powdered white hellebore two ounces  
Oleander leaves one ounce  
Common salt ten drachms  
Rose ointment two pounds

Mix. As an application in psora, &c. *Taddei.*

R. Extract of tobacco one drachm  
Simple cecrate one ounce

Mix. As a friction in neuralgia. *Chippendale.*

#### OIL OF TOBACCO.

R. Kentucky tobacco at will  
Introduce it into an earthen or iron retort, connected with a receiver, which should be furnished with a tube, to conduct the incondensable gases to a chimney; heat the retort to the temperature of 600° Fahr., or thereabout, until the empyreumatic oil ceases to distil; separate the black tarry from the acid liquor in the receiver, and preserve it for use.

#### NICOTINA.

R. Kentucky tobacco at will  
Cut in pieces, and extract it with water; evaporate to an extract, exhaust this with alcohol; distil off the alcohol, treat the soft extract with an excess of potash in water; agitate this with ether, in separate portions, till the impure nicotine is removed; unite the ethereal liquid, add an excess of pulverized oxalic acid, wash the oxalate of nicotine which precipitates with ether, then treat it with an aqueous solution of potash,

and again agitate the liquid with ether to remove the alkaloid, which is obtained by distilling off the ether in the form of a light brown, syrupy liquid, and consists of nicotine, ether, water, and some ammonia. The last three bodies may be removed by heating the nicotine in a retort to the temperature of 284° F., in a current of hydrogen, for twelve hours; then, by raising the heat to 356° F., the nicotine distills over pure. *Schloessing.*

## TAMARINDUS.

## TAMARINDS.

Tamarinds are the preserved fruit of the *Tamarindus Indica*, a large tree, a native of the East Indies, and extensively cultivated in the tropical parts of America. Those brought here, are principally derived from the West Indies.

*Sex. Syst.* Diadelph. triand. *Nat. Syst.* Fabaceæ.

Linn. Sp. Pl. 48. Griffith, Med. Bot. 262.

The preserved pods, as they come to us, are in a dark-colored adhesive mass, formed of pulp, fragments of the pods, seeds, and syrup, of a sweet acidulous taste. They are cooling and laxative; and, when mixed with water, form a grateful drink in febrile diseases.

## PULP OF TAMARINDS.

R. Tamarinds at will  
Digest in a small quantity of water, then  
pass through a sieve. *U. S. Ph.*

## ELECTUARY OF TAMARINDS.

R. Pulp of tamarinds one ounce and a-half  
Cremor tartar half an ounce  
Syrup of raspberries sufficient  
Mix. Two teaspoonfuls morning and  
evening, as a laxative. *Radius.*

## INFUSION OF TAMARINDS.

R. Pulp of tamarinds one ounce  
Boiling water two pints  
Infuse for one hour, and strain. As a  
cooling drink in fevers. *Cottereau.*

## TAMARIND WHEY.

R. Milk three pints  
Tamarinds one ounce  
Boil, and strain. As a cooling drink. *Foy.*

## TANACETUM.

## TANSY.

Tansy or *Tanacetum vulgare*, is a perennial herbaceous plant, with numerous yellow flowers; a native of Europe, and generally cultivated in our gardens, and has also become naturalized in some places.

*Sex. Syst.* Syngen. super. *Nat. Syst.* Asteraceæ.  
Linn. Sp. Pl. 1184. Griffith, Med. Bot. 406.

The whole plant is officinal; it has a peculiar, and strong odor, diminished by drying; and a warm, bitter, aromatic taste. It is an aromatic bitter, and has been praised in intermittents, hysteria, amenorrhœa, as an anthelmintic, &c. As a vermifuge, the seeds are to be preferred.

## INFUSION OF TANSY.

R. Fresh tansy one ounce  
Boiling water one pint  
Infuse, and strain. Internally, and as an  
injection against ascarides. *Niemann.*

## EXTRACT OF TANSY.

R. Tansy  
Alcohol, each, one pound  
Water eight pints  
Digest for three days, express, distil off  
the alcohol, and evaporate to proper con-  
sistence. Dose, six to twenty grains. *Giordano.*

## OIL OF TANSY.

R. Tansy at will  
Water sufficient  
Distil, and separate the oil. *Guibourt.*

## PILLS OF TANSY.

R. Oil of tansy one scruple  
Extract of English  
walnut two drachms  
Powdered marsh mallow sufficient  
Mix, and make sixty pills. Three to five  
every two hours, as a vermifuge. *Radius.*

## COMPOUND TINCTURE OF TANSY.

R. Tansy one ounce  
Wormwood  
Rhubarb, each, three ounces  
Sherry wine two fl. ounces  
Diluted alcohol twenty fl. ounces  
Digest for eight days, and filter. Dose,  
one to two fl. drachms, two or three  
times a-day, as a vermifuge. *Van Mons.*

## TAPIOCA.

## TAPIOCA

Is a secula obtained from the root of *Janipha manihot*, a shrub like, herbaceous plant, a native of the tropical parts of America, where it is largely cultivated under the name of Cassava, and forms an important article of food.

*Sex. Syst.* Monœc. monadelph. *Nat. Syst.* Euphorbiaceæ.

Kunth. ii. 85. Griffith, Med. Bot. 601.

Tapioca is found in the shops, in the form of irregular, rough, white grains, having little odor or taste, soluble in hot water, and affording a bland and nutritious diet for the sick and convalescent.

## TAPIOCA JELLY.

R. Tapioca two spoonfuls  
Water one pint



Boil gently for an hour, or till it becomes gelatinous; flavor with sugar, wine, &c., according to circumstances. *Ellis.*

#### TAPIOCA PUDDING.

R. Yolks of eggs two  
Sugar half an ounce  
Beat together, and stir the mixture with Tapioca mucilage one pint  
Bake in a slow oven. The mucilage should be made with milk, not water.

*A. T. Thomson.*

### TARAXACUM.

#### DANDELION.

This official article is the root of *Taraxacum dens lionis*, a small, herbaceous plant, with a perennial, fusiform root. It is a native of Europe, but has become abundantly naturalized in this country.

*Ser. Syst.* Syngen. equal. *Nat. Syst.* Asteraceæ. Haller, i. 23. Griffith, Med. Bot. 414.

The root is fusiform, of a light brown color externally, succulent, inodorous, and of a mucilaginous, bitterish taste. It is aperient, diuretic, and somewhat tonic, and thought to be resolvent in engorgements of the liver.

#### DECOCTION OF DANDELION.

R. Bruised dandelion root two ounces  
Water two pints  
Boil down to a pint, and strain. *U. S. Ph.*

A wineglassful, two or three times a-day, as a diuretic, &c.

#### COMPOUND INFUSION OF DANDELION.

R. Infusion of dandelion four fl. ounces  
Extract of dandelion two drachms  
Carbonate of soda half a drachm  
Tartrate of potassa three drachms  
Tincture of rhubarb three fl. drachms  
henbane twenty drops

Mix. One-third part, three times a-day, in dropsical and visceral affections.

*Meigs.*

#### FLUID EXTRACT OF DANDELION.

R. Dandelion root, fresh, thirty-two ounces  
Slice it, and reduce to a pulp. Mix this with one-sixth its bulk of alcohol, macerate for twenty-four hours, and express strongly. Add a pint of water containing a little alcohol, and again express. Evaporate the mixed products to twelve fl. ounces, add four fl. ounces of alcohol, and filter.

A teaspoonful is equal to half a drachm of the extract obtained from the expressed juice. It may be made from sixteen ounces of the dried root, reduced to a coarse powder, macerated in two pints of

water mixed with half a pint of alcohol, for two days, expressed, &c., as above.

*W. Procter.*

#### EXTRACT OF DANDELION.

R. Root of dandelion, bruised, one pound  
Water one gallon  
Boil down to four pints, express, and strain, then evaporate to proper consistence. *U. S. Ph.*

Dose, a scruple to a drachm, three times a-day, alone, or dissolved in cinnamon or mint water.

R. Bruise the recent root collected in September; add one-fourth its bulk of alcohol; allow the whole to macerate twelve hours, express powerfully, add a little dilute alcohol, and again express. Evaporate the mixed liquids in a water-bath to the proper consistence. *W. Procter.*

#### PILLS OF EXTRACT OF DANDELION.

R. Extract of dandelion half a drachm  
Powdered liquorice sufficient  
Mix, and make eight pills. One, three times a-day. In dropsy, and diseases of the urinary apparatus. *Ellis.*

R. Extract of dandelion  
Soap, each, one ounce  
Liquid acetate of potassa sufficient  
Mix, and make pills of four grains. Four to six in a day, as diuretic, &c. *St. Marie.*

#### PILLS OF DANDELION AND BLUE MASS.

R. Extract of dandelion half a drachm  
Blue pill five to ten grains  
Powdered uva ursi sufficient  
Mix, and make ten pills. One, thrice a-day. In dropsy connected with liver disease. *Ellis.*

#### MIXTURE OF DANDELION.

R. Extract of dandelion two ounces  
Peppermint water six fl. ounces  
Clarified honey one ounce  
Mix. Two spoonfuls, every three hours. *Richter.*

R. Extract of dandelion half a drachm  
Decoction of dandelion nine fl. drachms  
Spirit of nitric ether one fl. drachm  
Syrup of ginger two fl. drachms  
Mix. To be taken three times a-day, as a diuretic in anasarca and ascites. *Sprague.*

R. Cremor tartar two drachms  
Bruised cloves two scruples  
Sugar one ounce  
Decoction of dandelion one pound  
Macerate for two hours, and strain. One-fourth to be given every six hours, in dropsy. *Sprague.*

## CLYSTER OF DANDELION.

R. Dandelion three ounces  
 Bran one ounce  
 Water sixteen fl. ounces  
 Boil down to eight fl. ounces; add, at close,  
 Chamomile  
 Valerian, each, two drachms  
 Strain, for two injections. Much praised  
 in obstructions of the bowels. *Berands.*

## TEREBINTHINA.

## TURPENTINE.

Turpentine is the juice of several species of the Pine tribe, and is also procured from trees of other orders. That used in the United States is from several species of *Pinus* and *Abies*. All the turpentines are possessed of much the same properties; they have an aromatic odor, and a somewhat pungent and bitterish taste. They are stimulant, diuretic, anthelmintic, and, in large doses, purgative. They are also used externally as rubefacients.

## TURPENTINE PILLS.

R. Turpentine one drachm  
 Divide into fifteen pills. One, four or five times a-day, in affections of the urinary organs. *Ellis.*

## PILLS OF TURPENTINE AND GUAIAIACUM.

R. Powdered guaiacum one drachm  
 Turpentine sufficient  
 Mix, and make fifteen pills. One, thrice a-day; in gleet and leucorrhœa. They sometimes cause strangury. *Ellis.*

## PILLS OF TURPENTINE AND MAGNESIA.

R. Turpentine fourteen drachms  
 Calcined magnesia thirty-six grains  
 Mix, and make pills of six grains, at the end of twelve hours. In diseases of the urinary organs. *Monchon.*

## PILLS OF TURPENTINE AND RHUBARB.

R. Turpentine two ounces  
 Extract of rhubarb three drachms  
 Camphor two drachms  
 Mix, and make pills of four grains. Dose, three, thrice a-day, in leucorrhœa and gonorrhœa. *St. Marie.*

## PILLS OF TURPENTINE AND MYRRH.

R. Turpentine  
 Spermaceti half an ounce  
 Powdered myrrh two drachms  
 olibanum sufficient  
 Mix, and make pills of three grains. One every three hours, in chronic catarrh. *Cadet.*

## PILLS OF TURPENTINE AND JALAP.

R. Turpentine one drachm

Soap of jalap half a drachm  
 Extract of henbane four grains  
 Calomel eight grains  
 Make pills of twelve grains. Dose, four every three hours, for two days. As an anthelmintic. *Augustin.*

## ELECTUARY OF TURPENTINE.

R. Turpentine  
 Soap  
 Powdered rhubarb, each, one drachm  
 Syrup sufficient  
 Mix. Three teaspoonfuls a-day, in dropsy. *Radius.*

## TURPENTINE CLYSTER.

R. Venice turpentine half a fl. ounce  
 Yolk of egg one  
 Infusion of flaxseed ten fl. ounces  
 Rapeseed oil one fl. ounce  
 Mix. In colic, and obstinate constipation. *Ph. Noscom. Ed.*

## LINIMENT OF TURPENTINE.

R. Yellow wax one part  
 Melt, and add  
 Turpentine  
 Oil of turpentine, each, one part  
 Mix. Much praised in chronic ulcers on the legs. *Van Mons.*  
 R. Yellow wax half a pound  
 Olive oil one pound  
 Red saunders two ounces  
 Turpentine one pound  
 Melt together, strain, and add  
 Camphor two drachms  
 As an application to contusions and ulcerations. *Van Mons.*

R. Spirit of turpentine  
 Olive oil, each, one ounce and a-half  
 Dilute sulphuric acid three drachms  
 Mix. As an embrocation in rheumatism. *Chapman.*

## OINTMENT OF TURPENTINE.

R. Turpentine two pounds  
 Simple ointment nine ounces  
 Melt with a gentle heat, constantly stirring. *Austrian Ph.*

## COMPOUND OINTMENT OF TURPENTINE.

R. Mucilage one pound  
 Fresh butter two pounds  
 Olive oil three pounds and a-half  
 Melt together, and add  
 Turpentine three ounces  
 Mix well. As an application in engorgement of the breasts, in nephritic pains, &c. *Swediaur.*

## TURPENTINE PLASTER.

R. Turpentine one ounce

White of egg

Wheat flour

Sugar

Honey

Brandy

Olive oil, each, one ounce

Mix the turpentine and honey, gradually adding the other ingredients, rubbing well. As an application to painful ulcers.

*St. Marie.*

## COMPOUND TURPENTINE PLASTER.

R. Turpentine eight parts

Suet twenty-four parts

Yellow wax thirty-two parts

Essence of mint

cloves, each, one part

Oil of mace six parts

Powder benzoin eight parts

olibanum sixteen parts

Mix, with the assistance of heat. Useful in diarrhœa, dyspepsia, flatulency, colic.

*Ph. Sued.*

## TURPENTINE MIXTURE.

R. Turpentine two drachms

Yolk of egg one

Rub together, and add

Extract of rhubarb

Sal prunelle, each, one drachm

Add gradually

Infusion of liquorice ten fl. ounces

Syrup of marsh mallows one fl. ounce

Mix. A spoonful every hour, in gonorrhœa.

*Bories.*

## TURPENTINE MIXTURE.

R. Turpentine one ounce

Mint water four fl. ounces

Gum Arabic sufficient

Simple syrup one ounce

Extract of belladonna one grain

Mix, and make emulsion. Used in gonorrhœa, after the reduction of the inflammatory stage; when it acts too powerfully on the bowels, it must be intermitted for a few days.

*Ebriart.*

R. Spirit of turpentine one fl. ounce

Oil of mint one fl. drachm

Mix. In flatulent colic, and gout in the stomach. Dose, a teaspoonful.

*Dewees.*

## TILIA EUROPÆA.

## LINDEN.

The linden is a handsome tree, a native of the north of Europe, and much cultivated in the United States for ornament and shade.

*Sex. Syst.* Polyand. monog. *Nat. Syst.* Tiliaceæ.

Linn. Sp. Pl. 733. Lindley, Flor. Med. 147.

The part used is the flowers, which, when dried, have a faint but agreeable odor, and a sweetish, mucilaginous taste. They are antispasmodic, and diaphoretic, and are much used in France. It is probable that the flowers of our native species have the same properties.

## INFUSION OF LINDEN FLOWERS.

R. Linden flowers two drachms

Boiling water two pints

Infuse for half an hour, and strain. A mild antispasmodic.

*Par. Cod.*

## COMPOUND INFUSION OF LINDEN FLOWERS.

R. Linden flowers

Chamomile

Orange leaves, each, two drachms

Boiling water two pints

Infuse for half an hour, strain, and add

Syrup two fl. ounces

A small cupful, occasionally.

*Foy.*

## TOLUTANUM.

## BALSAM OF TOLU.

This is the concrete balsamic juice of *Myrspermum toluiferum*, a large tree, of which little is known, growing in several parts of South America.

*Sex. Syst.* Diadelph. decand. *Nat. Syst.* Fabaceæ.

Decandolle, Prod. ii. 95. Griffith, Med. Bot. 250.

At first, the balsam is soft and tenacious, but gradually becomes hard and brittle, when it is transparent, shining, of a yellowish, or reddish brown color, of a fragrant odor, and a sweetish, warm taste. It is a stimulating expectorant. The dose is from ten to thirty grains.

## LOZENGES OF BALSAM OF TOLU.

R. Balsam of Tolu one ounce

Alcohol one fl. ounce

Dissolve, and add

Water two fl. ounces

Heat in a water-bath, and filter; add,

Tragacanth four scruples

Sugar sixteen ounces

Beat into paste, and make lozenges of twelve grains.

*Par. Cod.*

## TINCTURE OF BALSAM OF TOLU.

R. Balsam of Tolu three ounces

Alcohol two pints

Macerate till dissolved, then filter.

*U. S. Ph.*

A highly stimulating expectorant. Dose, one to two fl. drachms.

## COMPOUND TINCTURE OF BALSAM OF TOLU.

R. Balsam of Tolu two ounces



Balsam of Peru one ounce  
 Flowers of benzoin  
 Saffron, each, half an ounce  
 Alcohol twenty-four fl. ounces  
 Digest for three days, and filter.

*Spielman.*

#### TINCTURE OF TOLU WITH FOXGLOVE.

R. Tincture of balsam  
 of Tolu one fl. ounce and a-half  
 Elixir of vitriol half fl. drachm  
 Tincture of foxglove one fl. drachm  
 Antimonial wine two fl. drachms  
 Clarified honey one fl. ounce and a-half  
 Powdered liquorice half a drachm  
 Distilled water six fl. ounces  
 Mix. A tablespoonful, according to circumstances. *Ellis.*

#### EMULSION OF BALSAM OF TOLU.

R. Balsam Tolu three drachms  
 Mecca eight drops  
 Sweet almonds half an ounce  
 Barley water eighteen fl. ounces  
 Sugar six drachms  
 Make an emulsion. A spoonful occasionally, in chronic catarrh, &c. *Spielman.*

#### SYRUP OF BALSAM OF TOLU.

R. Tincture of Tolu one fl. ounce  
 Syrup one pint and a-half  
 Mix, and evaporate on water-bath to the proper consistence. *U. S. Ph.*

R. Balsam of Tolu ten drachms  
 Boiling water one pint  
 Sugar two pounds and a-half  
 Boil the balsam in the water for half an hour, occasionally stirring; strain when cold, add the sugar, and form syrup. *Lond. Ph.*

#### MIXTURE OF TOLU AND MORPHIA.

R. Oxy-mel of squill one ounce and a-half  
 Syrup of Tolu half an ounce  
 Acetate of morphia half to one grain  
 Mix. A teaspoonful, as occasion may require, in catarrh. *Ellis.*

#### MIXTURE OF TOLU AND BELLADONNA.

R. Syrup of Tolu three fl. ounces and a-half  
 seneka half a fl. ounce  
 Extract of bella-donna eight to twelve grains  
 Wine of ipecacuanha one fl. drachm  
 Mix. A teaspoonful, three or four times a-day, in cough. *Ellis.*

#### MIXTURE OF TOLU AND ALMOND EMULSION.

R. Almond emulsion fifteen parts  
 Syrup of Tolu one part  
 Mix. In cough. *Beral.*

#### MIXTURE OF TOLU AND COPAIBA.

R. Balsam of Tolu  
 copaiba  
 Powdered gum  
 Arabic, each, half an ounce  
 Elixir of vitriol twenty drops  
 Distilled water six fl. ounces  
 Mix. A tablespoonful occasionally, in chronic hooping-cough. *Ellis.*

#### TOLU MIXTURE.

R. Tincture of Tolu one ounce  
 Laudanum two drachms  
 Tincture of foxglove one drachm  
 Mix. In the chronic cough of hæmoptysis. Forty to fifty drops, every three or four hours. *Dewees.*

#### MIXTURE OF TOLU AND OPIUM.

R. Balsam of Tolu one drachm  
 Powdered gum  
 Arabic one drachm and a-half  
 Water four fl. ounces  
 Syrup of opium half a fl. ounce  
 Make an emulsion. *Niemann.*

#### BALSAM OF TOLU INHALATION.

R. Balsam of Tolu one ounce  
 Boiling water one pint  
 Mix. The vapor to be inhaled. *Ellis.*

## TORMENTILLA.

### TORMENTIL.

The root of *Potentilla tormentilla*, a small, perennial plant, with a large, woody, dark brown root, a native of many parts of Europe, growing in barren spots.

*Sex. Syst.* Icosand. polyg. *Nat. Syst.* Rosaceæ. Sibthorp, Fl. Ox. 162. Griffith, Med. Bot. 278.

The root, when dried, is in irregular pieces, which are knotty, tuberculated, and of a dark reddish-brown color. Its odor is slightly aromatic, and its taste very astringent. It is a simple and somewhat active astringent. Dose, thirty grains to a drachm.

### COMPOUND POWDER OF TORMENTIL.

R. Powdered tormentil  
 gum Arabic,  
 each, three ounces  
 Armenian bole six ounces  
 Powdered cinnamon four ounces  
 long pepper half an ounce  
 Mix. *Geneva Ph.*

### EXTRACT OF TORMENTIL.

R. Tormentil one part  
 Water eight parts  
 Boil, and strain; repeat with same quantity of water, mix the two decoctions, strain, and evaporate to the proper con-

sistence. Dose, from twenty to thirty grains. *Amst. Ph.*

#### DECOCTION OF TORMENTIL.

R. Tormentil, bruised, two ounces  
Distilled water one pint and a-half  
Boil down to a pint, and strain.

*Lond. Ph.*

Dose, one to two fl. ounces, three or four times a day.

#### GARGLE OF TORMENTIL.

R. Tormentil one ounce  
Water twelve fl. ounces  
Boil down one-third, strain, and add  
Alum one drachm  
Honey one ounce  
Mix. *Radiis.*

### TOXICODENDRON.

#### POISON OAK.

The leaves of *Rhus toxicodendron*, a shrubby plant, native of the United States; sometimes becoming a vine, when it has received the name of *Rhus radicans*, or Poison vine. They both grow in woods, along fence rows, &c., and are extremely poisonous to some persons, whilst other individuals are not affected by them.

*Ser. Syst.* Pentand. trigyn. *Nat. Syst.* Anacardiaceæ.

Linn. Sp. Pl. 381. Griffith, Med. Bot. 184.

The officinal portion is the leaves, which are inodorous, and of a disagreeable, acrid taste. They are narcotic and stimulant, acting like the acro narcotic poisons in large doses. They have been used with success in obstinate cutaneous affections, chronic rheumatism, &c. The dose is half a grain, gradually increased.

#### EXTRACT OF POISON OAK.

R. Leaves of poison oak one part  
Aleohol four parts  
Infuse, strain, distil off the spirit, and evaporate to proper consistence.

*Pur. Cod.*

Dose, one grain, gradually increased till some effect is induced.

#### PILLS OF POISON OAK.

R. Extract of poison oak  
Camphor, each, fifteen grains  
Extract of arnica  
valerian, each, thirty grains  
Powdered ealamus sufficient  
Beat into mass, and make thirty pills.  
One, three times a-day, in hemiplegia.

*Brera.*

#### TINCTURE OF POISON OAK.

R. Clarified juice of poison oak  
Aleohol equal parts  
Mix, and filter at end of twenty-four hours.  
Dose, five drops, gradually increased.

### TRAGACANTHA.

#### TRAGACANTH.

A gummy exudation from *Astragalus verus*, and other species of *Astragalus*. All of them are small shrubs, with thorny petioles, found in the countries bordering on the Levant, in Persia, &c.

*Ser. Syst.* Diadelph. decand. *Nat. Syst.* Fabaceæ.

Lindley, Flor. Med. 247. Griffith, Med. Bot. 239.

Tragacanth is in contorted, vermicular pieces, rounded or flattened, of a whitish, or whitish yellow color; semi-translucent and corneous; tough, except when quite dry. It is inodorous, and of bland, mucilaginous taste. It forms a paste or mixture with water, but does not dissolve. It is demulcent and nutritive.

#### COMPOUND TRAGACANTH POWDER.

R. Powdered tragacanth  
gum Arabic  
starch, each, one ounce and  
a-half

Sugar three ounces  
Mix well. *Lond. Ph.*

Demulcent. Dose, from thirty grains to a drachm.

#### MUCILAGE OF TRAGACANTH.

R. Tragacanth one ounce  
Boiling water one pint  
Maerate for twenty-four hours, occasionally stirring, triturate till uniform, and strain forcibly through linen. *U. S. Ph.*

Principally used as a basis for more active medicines.

#### PASTE OF TRAGACANTH.

R. Tragacanth thirty-two parts  
Maerate in  
Water one thousand parts  
Also dissolve  
Isinglass forty-eight parts

In  
Water eight hundred parts  
Strain through a linen cloth, and mix with the maerated gum, and add

Syrup one thousand parts  
Evaporate by a gentle fire, to the consistence of soft paste, and gradually add

Orange-flower water sixty-four parts  
Evaporate to proper consistence on a water-bath. As expectorant. *Foy.*

R. White tragacanth sixty-four parts  
Isinglass ninety-six parts  
Water three thousand parts  
Simple syrup two thousand parts  
Orange-flower water

one hundred and twenty-eight parts  
Bruise the tragacanth, and place it in a vessel for two days with five-sixths of the

water, and dissolve the isinglass in the rest of the water; strain both solutions; heat the syrup to boiling, and mix the whole, and continue heat, till the mixture is of the consistence of soft paste, stirring well. Remove from fire; add orange-flower water, and evaporate on water-bath, till sufficiently firm; pour on marble slab, and divide into lozenges. *Mouchon.*

## TUSSILAGO.

## COLTSFOOT.

Coltsfoot is a small, perennial plant, with large, radical, cordate leaves, and flowers on simple, leafless scapes. It is the *Tussilago farfara*, and is a native both of Europe and North America.

*Sex. Syst.* Syngen. super. *Nat. Syst.* Asteraceæ. Linn. Sp. Pl. 1214. Griffith, Med. Bot. 393.

The whole herb is used, but the leaves and flowers should be preferred. The latter have an agreeable smell, the former are inodorous, but have a rough, bitterish, mucilaginous taste. They

both are demulcent, and have been much used in pectoral affections.

## DECOCTION OF COLTSFOOT.

R. Flowers of coltsfoot           one ounce  
Water                               two pints  
Boil down to a pint, and strain. *Beasley.*

## SYRUP OF COLTSFOOT.

R. Flowers of coltsfoot           one pound  
Boiling water                   two pints  
Macerate for twelve hours, express, strain, and add  
Sugar                               four pounds  
Make syrup. *Par. Cod.*

## COMPOUND DECOCTION OF COLTSFOOT.

R. Flowers of coltsfoot           six ounces  
Figs  
Raisins  
Jujubes, each,                   two ounces  
Water                               twelve pints  
Boil down one-third, adding  
Liquorice root                   two ounces  
Strain. As a demulcent drink. *Taddei.*

## U

## ULMUS CAMPESTRIS.

## ELM BARK.

This is a large tree, a native of Europe, having strong, spreading branches, and a rough, cracked bark.

*Sex. Syst.* Pentand. digyn. *Nat. Syst.* Ulmaceæ.

Linn. Sp. Pl. 327. Lindley Flor. Med. 307.

The part used is the inner bark; this is thin, tough, of a brownish yellow color, inodorous, of a mucilaginous, slightly astringent taste. It is demulcent, and somewhat astringent, and also acts as an alterative.

## DECOCTION OF ELM BARK.

R. Fresh elm bark,  
bruised,                   two ounces and a-half  
Distilled water                   two pints  
Boil down to one pint, and strain.

*Lond. Ph.*

From four to six fl. ounces, two or three times a-day in cutaneous affections.

## COMPOUND INFUSION OF ELM BARK.

R. Elm bark  
Burdock  
Dock root  
Bittersweet  
Fumitory, each,                   two drachms

Boiling water                   one pint

Infuse for four hours, strain, and add

Syrup of sarsaparilla           one ounce

To be taken in twenty-four hours, in divided doses, in chronic exanthemata.

*Cadet.*

## ULMUS FULVA.

## SLIPPERY ELM.

A very lofty tree, found in the United States, especially west of the mountains, growing in dry, elevated situations.

*Sex. Syst.* Pentand. digyn. *Nat. Syst.* Ulmaceæ. Mich. Fl. Am. 172. U. S. Dispen. 726.

The inner bark is the part used. This is in long, flat strips, of a tawny color on the outer surface, and reddish on the inner, of a peculiar, though not strong odor, and a mucilaginous taste. It is a good demulcent, and is much used in diseases of the mucous membranes. It is also very nutritious.

## INFUSION OF SLIPPERY ELM BARK.

R. Slippery elm bark, bruised, one ounce  
Boiling water                   one pint  
Macerate for two hours, and strain.

*U. S. Ph.*

To be used freely, as a demulcent.



## CATAPLASM OF SLIPPERY ELM BARK.

R. Ground slippery elm bark at will  
Hot water sufficient  
Make cataplasm. A soothing application  
to irritable ulcers, &c.

## UVA URSI.

## UVA URSI.

*Uva ursi* is the leaves of *Arctostaphylos uva ursi*, a small, evergreen shrub, inhabiting the northern parts of both continents, and high mountains in more southern latitudes.

*Ser. Syst.* Decand. monog. *Nat. Syst.* Ericaceæ.

Sprengel, ii. 287. Griffith, Med. Bot. 425.

The leaves, when dried, have a somewhat hay-like smell; their taste is astringent and bitterish, and finally sweetish. They are astringent and tonic, with some special action on the urinary organs. They are much used in diseases of the genito-urinary organs. Dose, in powder, from a scruple to a drachm, three or four times a-day.

## COMPOUND POWDER OF UVA URSI.

R. Powdered *uva ursi*  
Peruvian  
bark, each, two drachms  
opium three grains

Mix, and divide into six powders. One, twice a-day, with lime water, in nephritic complaints, and as an antilithic. *Ferriar.*

R. Powdered  
*uva ursi* one drachm and a-half  
Bicarbonate of soda one drachm  
Mix, and divide into twelve powders. One thrice a-day, in diseases of the kidney and bladder. *Ellis.*

R. Powdered *uva ursi* half an ounce  
gum Arabic two drachms  
jalap one drachm

Powdered sugar half an ounce  
Oil of orange peel six drops  
Mix. Dose, one drachm, in nephritic colic. *Quarin.*

## DECOCTION OF UVA URSI.

R. *Uva ursi* one ounce  
Water twenty fl. ounces  
Boil down to a pint, and strain. *U. S. Ph.*

Dose, from one to two fl. ounces, three or four times a-day.

## EXTRACT OF UVA URSI.

R. *Uva ursi* two pounds and a-half  
Boiling water two gallons  
Macerate for twenty-four hours, boil down to a gallon, strain while hot, evaporate to a proper consistence. *Lond. Ph.*

Dose, five to thirty grains.

## MIXTURE OF UVA URSI.

R. *Uva ursi* one ounce and a-half  
Milfoil one ounce  
Water three pints  
Boil down to two pints, and add, at close,  
Liquorice one ounce  
Strain, and add  
Syrup of cinnamon two ounces  
To be taken in divided doses, in passive hemorrhages of lungs and bladder. *Radius.*

## SYRUP OF UVA URSI.

R. *Uva ursi* eight ounces  
Boiling water two pints  
Infuse the finely bruised leaves in the water for three hours, put in a displacement filter, and add water sufficient to obtain two pints of infusion. Evaporate to one pint, and add two pounds (av.) of sugar, and make syrup. *W. Procter.*

## V

## VALERIANA.

## VALERIAN.

Several species of Valerian are used in medicine, but one only is officinal, *Valeriana officinalis*, a handsome, perennial, herbaceous plant, with white or rose-colored flowers, in terminal corymbs.

*Ser. Syst.* Triand. monog. *Nat. Syst.* Valerianaceæ.

Linn. Sp. Pl. 45. Griffith, Med. Bot. 384.

The part used is the root; this consists of

many long, slender fibres, arising from a tuberculated rhizome; the color is yellowish, or brownish; the odor is strong and peculiar, and the taste is bitter and aromatic. It is an active antispasmodic, and is much used in nervous diseases. The dose is from half a drachm to a drachm, two or three times a-day.

## COMPOUND POWDER OF VALERIAN.

R. Powdered valerian one drachm  
orange leaves one scruple  
Muriate of ammonia two grains

Oil of cajeput four drops  
 Mix. A teaspoonful, four times a-day, in  
 hot tea. In epilepsy. *Niemann.*

R. Powdered valerian one ounce  
 Flowers of zinc one scruple  
 Musk ten grains  
 Mix. As an antispasmodic, in teaspoonful  
 doses. *Brera.*

R. Powdered valerian one scruple  
 Aromatic powder ten grains  
 Mix. To be taken three or four times  
 a-day. In hysteria, hemicrania, chlorosis,  
 &c. *A. T. Thomson.*

#### BOLUS OF VALERIAN AND IRON.

R. Powdered valerian one drachm  
 Carbonate of iron ten grains  
 Mucilage of gum Arabic sufficient  
 Mix, and make bolus. One, three times  
 a-day, as antispasmodic. *Ellis.*

#### BOLUS OF VALERIAN AND SULPHATE OF POTASSA.

R. Powdered vale-  
 rian two drachms and a-half  
 Sulphate of potassa eighteen grains  
 Syrup of orange peel sufficient  
 Mix, and make eighteen boluses. *Cadet.*

#### COMPOUND PILLS OF VALERIAN.

R. Powdered valerian half a drachm  
 Castor  
 Oxide of zinc, each, one scruple  
 Mix, and make eighteen pills. Three,  
 thrice a-day. *Dupuytren.*

#### ELECTUARY OF VALERIAN.

R. Powdered valerian  
 orange leaves, each, six  
 drachms

Syrup of wormwood sufficient  
 Mix. Two or three teaspoonfuls a-day.  
*Swedjaur.*

R. Powdered valerian two ounces  
 Peruvian bark half an ounce  
 Carbonate of ammonia two drachms  
 Ginger syrup sufficient  
 Mix. Dose, a drachm every hour or two,  
 in periodic hemicrania. *Donald Monro.*

#### INFUSION OF VALERIAN.

R. Valerian half an ounce  
 Boiling water one pint  
 Macerate for an hour in a covered vessel,  
 and strain. *U. S. Ph.*

Dose, two fl. ounces, three or four times a-day.

#### COMPOUND INFUSION OF VALERIAN.

R. Valerian one ounce and a-half  
 Decoction of Peruvian bark two pints  
 Make an infusion, strain, and add

Syrup of chamo-  
 mile one fl. ounce and a-half  
 Camphor twenty grains  
 Mix. One to two fl. ounces, three times  
 a-day. *Saunders.*

#### TINCTURE OF VALERIAN.

R. Valerian, bruised, four ounces  
 Diluted alcohol two pints  
 Macerate for fourteen days, express, and  
 filter. *U. S. Ph.*

Dose, from one to four fl. drachms.

#### AMMONIATED TINCTURE OF VALERIAN.

R. Valerian, bruised, four ounces  
 Aromatic spirit of ammonia two pints  
 Macerate for fourteen days, express, and  
 filter. *U. S. Ph.*

Dose, one to two fl. drachms, in milk, or some  
 mucilaginous fluid.

#### COMPOUND AMMONIATED TINCTURE OF VALERIAN.

R. Valerian one ounce  
 Cloves  
 Mace, each, one drachm  
 Lemon peel one drachm and a-half  
 Aromatic spirit of  
 ammonia twenty-four fl. ounces  
 Macerate for a week, express, and filter.  
 Dose, a half to one fl. drachm. *Van Mons.*

#### COMPOUND TINCTURE OF VALERIAN.

R. Valerian  
 Castor, each, two ounces  
 Saffron one ounce  
 Peppermint water  
 Alcohol, each, twenty fl. ounces  
 Macerate for a week, express, and filter.  
 Dose, a half to one fl. drachm.

*Wertz. Ph.*

#### WINE OF VALERIAN.

R. Valerian one ounce  
 Sherry wine one pint  
 Macerate for twenty-four hours, express,  
 and filter. A spoonful, as may be re-  
 quired. *Niemann.*

#### SYRUP OF VALERIAN.

R. Bruised valerian one pound  
 Water eight pints  
 Macerate for twelve hours, then distil off  
 one pint and a-half, strain, and filter the  
 remainder. Mix with eight pounds of  
 syrup; evaporate to six and a-half pounds,  
 and add the distilled fluid. *Par. Cod.*

#### MIXTURE OF VALERIAN AND AMMONIA.

R. Valerian one scruple  
 Carbonate of ammonia ten grains  
 Cinnamon water two fl. ounces  
 Mix. As a draught, every fourth hour,  
 in nervous headache, &c. *Ellis.*

MIXTURE OF VALERIAN AND HOFFMANN'S ANODYNE.

- R. Valerian six drachms  
Boiling water eight fl. ounces  
Make an infusion, strain, and add  
Cinnamon water two fl. ounces  
Hoffmann's anodyne two fl. drachms  
Syrup one fl. ounce  
Mix. A spoonful, as required. *Foy.*

TINCTURE OF VALERIAN AND HOFFMANN'S ANODYNE.

- R. Tincture of valerian  
Hoffmann's anodyne, each, one fl. ounce  
Mix. A teaspoonful, as may be required. *Ellis.*

OIL OF VALERIAN.

- R. Bruised valerian at will  
Water sufficient  
Distil, and separate the oil from the product.

MIXTURE OF OIL OF VALERIAN AND AMMONIA.

- R. Oil of valerian eight drops  
Aromatic spirit of ammonia one fl. drachm  
Water four fl. ounces  
Sugar two drachms  
Mix. A tablespoonful, every two or three hours. *Ellis.*

EXTRACT OF VALERIAN.

- R. Coarsely powdered valerian at will  
Moisten with twice its weight of alcohol (.834), let macerate for three days, put into a displacement apparatus, and displace with alcohol (.915). The first product, on being distilled over a water-bath, affords a dark green resin, containing most of the volatile oil, and valerianic acid. The product of the distillation is to be diluted with distilled water, to reduce it to (.935), and the valerian exhausted by additional spirit. Mix the tinctures, filter and distil. The residue is to be evaporated and mixed with the first product. One grain is equal to five of valerian. *Burin.*

FLUID EXTRACT OF VALERIAN.

- R. Valerian eight ounces  
Ether four fl. ounces  
Alcohol twelve fl. ounces  
Diluted alcohol sufficient  
Powder the valerian coarsely, and introduce it uniformly, but without packing, into a displacer. Add a mixture of the ether and alcohol, and let it percolate slowly through the powder, and pour on the diluted alcohol until the ethereal men-

struum has been displaced, when the product will amount to nearly a pint; add more diluted alcohol, until ten fl. ounces pass; place the ethereal tincture in a shallow vessel, and let it evaporate spontaneously, till it is reduced to six fl. ounces. Pour off the clear liquid, and mix it with the ten ounces of tincture, and the oleo-resin adhering to the sides of the vessel, dissolved in a little alcohol and added to the rest; let stand, with occasional agitation, for three or four hours, and then filter. One fl. ounce is equal to half an ounce of the root. *W. Procter.*

- R. Valerian eight ounces  
Alcohol eight fl. ounces  
Sulphuric ether four fl. ounces  
Water sufficient

Bruise the valerian finely, put it in a displacement apparatus, and add the alcohol and ether, mixed; remove the last portions of the tincture by water, and set the solution aside in a warm room to evaporate, till all the ether and half the alcohol have escaped. The residue will amount to four fl. ounces, of a greenish color. Proceed to displace with the water, setting aside the first eight fl. ounces of the product, and proceed with the process till the root is exhausted. Evaporate this to four fl. ounces; mix all the solutions. The dose is about a teaspoonful.

*E. T. Ellis.*

VALERIANIC ACID.

- R. Valerian root at will  
Distil with water until the distillate has but a slight acid reaction; add carbonate of soda to the distilled water gradually, until it is rendered slightly alkaline, observing the weight of the carbonate used. Evaporate the solution of valerianate of soda to a small quantity; add sufficient sulphuric acid to saturate the soda used, and distil in a glass retort. The valerianic acid will be found in the receiver floating on the water, and should be removed, and preserved in glass vials.

VANILLA.

VANILLA.

Under this name are included the seed pods of several species of *Vanilla*, but that most generally known is the *V. aromatica*, a sarmentose plant, a native of Mexico and South America.

*Sec. Syst. Gynand. monand. Nat. Syst. Orchidaceae.*

Swartz, Occident, iii. 1518. Flore Medicale, vi. 345.



The part used is the pod; this is long, slender, cylindrical, compressed, of a blackish-brown color, formed of two valves, and filled with brown pulp, containing a great quantity of small, blackish, shining seeds. The odor is peculiar but pleasant, the taste aromatic, hot, and pungent. It is principally used in this country for flavoring ice creams, &c., but is esteemed by European writers as an aromatic stimulant, increasing the power of the muscular system, and exciting the sexual feelings. It has been given in hysteria, rheumatism, impotence, &c. The dose is from eight to twelve grains.

### VANILLA SUGAR.

R. Tincture of vanilla                    one ounce  
Sugar    eight ounces  
Mix well, dry in a stove, and pulverize.

*Beral.*

### VANILLA LOZENGES.

R. Vanilla	one ounce
Sugar	seven ounces
Gum tragacanth	half a drachm
Water	half an ounce

Mix, and make lozenges of twelve grains.

*Beral.*

### TINCTURE OF VANILLA.

R. Vanilla	one part
Alcohol	four parts

Macerate for fourteen days, express, and filter. Dose, forty drops. *Cottureau.*

### SPIRIT OF VANILLA.

R. Vanilla                                one part  
Alcohol

Water, each,	twelve parts
Distil twelve parts.	<i>Soubeiran.</i>

### VANILLA ARROWROOT.

R. Milk fifteen ounces  
Sugar

Vanilla sugar  
Arrowroot, each, one ounce  
Mix, and boil, constantly stirring. *Beral.*

### VANILLA MILK.

R. Milk	sixteen ounces
Vanilla sugar	half an ounce
Dissolve, and strain.	<i>Beral.</i>

### ESSENCE OF VANILLA.

R. Vanilla	nine ounces
Spirit of abelmosehus	two pints
Cloves	thirty grains
Musk	seven grains

Used as a perfume, and for flavoring.

Cooley.

### FLUID EXTRACT OF VANILLA.

R. Vanilla	one ounce
Sugar	three ounces
Syrup	
Water, each,	half a pint
Deodorized alcohol	one fl. ounce

Cut the vanilla in thin, transverse slices, triturate it with the sugar, till reduced to powder moderately fine, add the syrup with two ounces of the water, put the mixture into a strong pint bottle, cork, and tie it over; place it in a vessel of water, which is then to be heated to the boiling point, and kept there for half an hour; remove the cork, and strain. The residue is then to be mixed with the remainder of the water and the alcohol, the mixture returned to the bottle, and heated as before, strained, and mixed with the first product.

W. Procter.

VERATRIA.

VERATRIN.

R. Cevadilla, bruised,	two pounds
Alcohol	three gallons

Diluted sulphuric acid  
Solution of ammonia  
Purified animal charcoal

Magnesia, each,                      sufficient

Boil the eevadilla in a gallon of the alcohol, in a retort with a receiver attached, for an hour, and pour off the liquor. To the residue, add another gallon of alcohol, together with the distilled portion, boil for an hour, and pour off the liquor; repeat a third time. Express, mix, and strain the liquors, and distil off the aleohol, on a water-bath. Boil the residue three or four times in water, acidulated with sulphuric acid, mix, and strain the liquors, and evaporate to the consistence of syrup. Add magnesia in slight excess, shake frequently, express, and wash residue. Repeat expression and washing several times.

Dry the residue, digest it with gentle heat, several times in alcohol, straining after each digestion. Distil off alcohol from the mixed liquors, boil the residue for fifteen minutes in water, with a little sulphuric acid and animal charcoal, and strain. Thoroughly wash the residue, mix the washings with the strained liquor, evaporate gently to consistence of syrup, add as much ammonia as will precipitate the veratria, separate this and dry it. *U. S. Pl.*

Veratria is a violent stimulant, and active poison. It is given internally in minute doses, but is more generally used externally, in gout, rheumatism, nervous affections, &c. The dose is from one-twelfth to one-sixth of a grain.

### PILLS OF VERATRIN.

R. Veratrin half a grain  
Syrup of gum  
Powdered gum Arabic, each, sufficient

Mix, and make six pills. Dose, one, to be increased to three. *Magendie.*

#### PILLS OF VERATRIN AND HENBANE.

R. Veratrin one grain  
Extract of henbane  
Powdered liquorice, each, ten grains  
Mix, and make twelve pills. One, thrice a-day. *Turnbull.*

#### TINCTURE OF VERATRIN.

R. Veratrin four grains  
Alcohol one fl. ounce  
Dissolve. Dose, from ten to twenty drops in a wineglassful of water, in dropsy, gout, rheumatism, &c. *Magendie.*

#### LOTION OF VERATRIN.

R. Veratrin one scruple to one drachm  
Alcohol two fl. ounces  
Mix. As embrocation, to be used with caution. *Turnbull.*

#### LINIMENT OF VERATRIN.

R. Veratrin eight grains  
Alcohol  
Soap liniment, each, four fl. drachms  
Mix well. *Brande.*

#### OINTMENT OF VERATRIN.

R. Veratrin five to twenty grains  
Lard one ounce  
Mix. A piece about the size of a hazelnut to be rubbed for five or fifteen minutes, over the seat of the disease, in rheumatism, &c. *Turnbull.*

R. Veratrin one scruple  
Rub with  
Olive oil one drachm  
Add  
Spermaceti ointment seven drachms  
Mix. As the last. *Turnbull.*

#### OINTMENT OF VERATRIN AND OPIUM.

R. Veratrin half a drachm  
Powdered opium one drachm  
Lard one ounce and a-half  
Mix. As a friction, in rheumatism. *Dunglison.*

#### OINTMENT OF VERATRIN AND IODINE.

R. Veratrin one scruple  
Iodide of potassium half a drachm  
Lard one ounce  
Mix. *Jourdan.*

### VERATRIÆ MURIAS.

#### MURIATE OF VERATRIN.

R. Veratria at will  
Muriatic acid sufficient  
to saturate; filter, evaporate, and crystallize. *Giordano.*

### VERATRIÆ NITRAS.

#### NITRATE OF VERATRIN.

### VERATRIÆ SULPHAS.

#### SULPHATE OF VERATRIN.

Are made in same manner, using the appropriate acids.

#### SOLUTION OF SULPHATE OF VERATRIN.

R. Sulphate of veratria one grain  
Distilled water two fl. ounces  
Dissolve. Dose, one to two fl. drachms, in a mixture, as a substitute for the *Eau Medicinale.* *Cadet.*

### VERATRUM ALBUM.

#### WHITE HELLEBORE.

A perennial, herbaceous plant, with a fleshy, fusiform rhizome, having numerous fibres. It is a native of the mountainous parts of Europe. *Sex. Syst.* Hexand. trigyn. *Nat. Syst.* Melanthaceae.

Linn. Sp. Pl. 1479. Griffith, Med. Bot. 643.

The root, which is the official part, is in cylindrical, somewhat conical pieces, with numerous radicles; these are corrugated, and of a blackish brown color. Their odor is slight, and their taste at first sweetish, and then bitter and acrid. White hellebore is an active irritant, causing violent vomiting and purging. Externally, it acts like the other powerful acids. Internally, in small doses, it has been used in many diseases, but is now principally employed externally in the treatment of cutaneous affections, &c. Dose, from a grain to two grains, gradually increased.

#### POWDER OF WHITE HELLEBORE.

R. Powdered white hellebore three grains  
starch one scruple  
Mix. As an errhine in amaurosis, and lethargic affections. *Radius.*

#### DECOCTION OF WHITE HELLEBORE.

R. White hellebore ten drachms  
Distilled water two pints  
Boil down to a pint, and add  
Rectified spirit three fl. ounces  
and strain. *Lond. Ph.*

As a wash, in cutaneous diseases.

#### WINE OF WHITE HELLEBORE.

R. Bruised white hellebore four ounces  
Wine one pint  
Macerate for fourteen days, express, and filter. *U. S. Ph.*

Dose, ten minims, gradually increased, two or three times a-day, in gout and rheumatism.

#### TINCTURE OF WHITE HELLEBORE.

R. Bruised white hellebore four ounces  
Diluted alcohol one pint  
Macerate for eight days, express, and filter. *Ed. Ph.*

Dose, as of the wine, in same cases.

OINTMENT OF WHITE HELLEBORE.

R. Powdered white hellebore two ounces  
Lard eight ounces  
Oil of lemons twenty minims  
Mix. *U. S. Ph.*

As a friction in itch, &c. To be used with caution on children.

COMPOUND OINTMENT OF WHITE HELLEBORE.

R. Powdered white hellebore two ounces  
nitre one drachm  
Soft soap  
Flowers of sulphur, each, six ounces  
Lard one pound and a-half  
Mix. As a friction in itch. *Phæbus.*

VERATRUM VIRIDE.

AMERICAN HELLEBORE.

A tall, perennial plant, with a thick, fleshy rhizome, having a tunicated top, and numerous fibrous radicles. It is a native of the United States, growing in damp meadows, and wet situations.

*Sex. Syst.* Hexand. trigyn. *Nat. Syst.* Melanthaceæ.

Aiton, Hort. Kew. iii. 422. Griffith, Med. Bot. 643.

The root, in a fresh state, has an unpleasant odor, which disappears on drying. Its taste is bitter and acrid. Its properties are much the same as those of the white hellebore, but is stated not to purge, and to rapidly reduce the frequency and force of the pulse. Dose, one grain, gradually increasing.

TINCTURE OF AMERICAN HELLEBORE.

R. American hellebore,  
bruised, six ounces  
Diluted alcohol one pint  
Macerate for fourteen days, express, and filter. Dose, a half to one fl. drachm.  
*Osgood.*

WINE OF AMERICAN HELLEBORE.

R. American hellebore,  
bruised, six ounces  
White wine fourteen fl. ounces  
Diluted alcohol two ounces  
Macerate for fourteen days, express, and filter. Dose, as of tincture. *Osgood.*

The recent root should be used in these two preparations.

EXTRACT OF AMERICAN HELLEBORE.

R. Recent root of American hellebore at will  
Bruise well, and express the juice, and evaporate to proper consistence, by a gentle heat, or by exposure to the sun. Dose, from a fourth to half a grain. *Osgood.*

OINTMENT OF AMERICAN HELLEBORE.

R. Powdered extract of American hellebore one drachm

Simple cerate

one ounce

Oil of lemons

three minims

Mix.

*Osgood.*

PILLS OF AMERICAN HELLEBORE.

R. Extract of American hellebore ten grains  
Opium five grains  
Soap fifteen grains  
Mucilage of gum Arabic sufficient  
Mix, and make thirty pills. One, every three or four hours, in rheumatism, &c.  
*Osgood.*

MIXTURE OF AMERICAN HELLEBORE.

R. Tincture of American hellebore bloodroot  
Camphorated tincture of opium equal parts  
Mix. Dose, fifty to sixty minims, in catarrh.  
*Osgood.*

VIOLA ODORATA.

SWEET VIOLET.

A well-known, small, perennial plant, with fragrant, blue flowers, a native of Europe, and generally cultivated in our gardens.

*Sex. Syst.* Pentand. monog. *Nat. Syst.* Violaceæ.

Linn. Sp. Pl. 1324. Griffith, Med. Bot. 140.

The flowers are the officinal portion. These are of a blue color, almost inodorous when dried, and of a slightly bitter taste. They are principally used as a demulcent, and laxative for infants.

CONSERVE OF VIOLETS.

R. Violet flowers, fresh, one part  
Sugar three parts  
Rub together. *Soubeiran.*

SYRUP OF VIOLETS.

R. Fresh violet flowers one pound  
Boiling water two pints and a-half  
Infuse for twenty-four hours, strain, and dissolve.  
Sugar seven pounds and a-half  
And form syrup. *Ed. Ph.*  
A gentle laxative for infants, in doses of one to two fl. drachms.

HONEY OF VIOLETS.

R. Flowers of violets  
Boiling water, each, six pounds  
Infuse, strain, and add  
Honey six pounds  
Evaporate to a proper consistence.  
*Wurt. Ph.*

OIL OF VIOLETS.

R. Fresh violet flowers fifteen ounces  
Almond oil five pounds  
Infuse, with three equal quantities of the flowers, and strain. Used as an article of perfumery. *Taddei.*



## W

## WINTERA.

## WINTER'S BARK.

This is derived from an evergreen tree, found in the southern parts of South America, the *Drimys winteri*, and also from other species, growing in Brazil, &c.

*Sex. Syst.* Polyand. trigyn. *Nat. Syst.* Magnoliaceæ.

Forster, Gen. 84. Griffith, Med. Bot. 100.

The bark is in quilled pieces of some length, of a pale, yellowish, or dull, reddish gray, with

darker spots externally, and of a dark cinnamon internally. It has an aromatic odor, and a warm, spicy taste. It is a stimulating, aromatic tonic. The dose, in powder, is about half a drachm.

## TINCTURE OF WINTER'S BARK.

R. Bruised winter's bark                    one part  
Diluted alcohol                                eight parts  
Digest with one-half of the alcohol, and repeat with the other. Unite the two tinctures, and filter.

## Z

## ZINCUM.

## ZINC.

## ZINCI OXIDUM.

## OXIDE OF ZINC.

R. Sulphate of zinc                    one pound  
Carbonate of ammonia                    six ounces and a-half  
Distilled water                                three gallons  
Dissolve the sulphate of zinc and carbonate of ammonia, separately, in twelve pints of the water, strain, and mix the solutions. Wash the precipitate well with water, and expose to a strong heat.

*U. S. Ph.*

Tonic and antispasmodic, and given in nervous and spasmodic affections, in doses of two to ten grains and upwards several times a-day. Also used externally.

## POWDER OF OXIDE OF ZINC.

R. Oxide of zinc                    three grains  
White sugar                                five grains  
Mix. One, every four hours. Useful in gastric or spasmodic cough.

*A. T. Thomson.*

## COMPOUND POWDER OF OXIDE OF ZINC.

R. Oxide of zinc                    six grains  
Extract of henbane                    one grain  
Oil of valerian                                one drop  
Powdered valerian                    half a drachm

Mix, and divide into nine powders. One, thrice a-day, in nervous disorders.

*Radiu.*

R. Oxide of zinc                    one drachm  
Powdered opium                    ten grains  
Peruvian bark  
Fennel, each,                                one ounce

Mix, and divide into fifty powders. One, every two hours, in whooping-cough.

*Augustin.*

## POWDER OF OXIDE OF ZINC AND COLOMBA.

R. Oxide of zinc                    four grains  
Powdered colomba                    thirty grains  
Mix, and divide into four powders. One, every three hours, in dyspepsia. *Brera.*

## PILLS OF OXIDE OF ZINC.

R. Oxide of zinc                    two scruples  
Conserve of roses                    sufficient  
Mix, and make ten pills. One, three or four times a-day, in epilepsy, chorea, &c.

*Ellis.*

R. Oxide of zinc                    three grains  
White sugar                                five grains  
Mix. Make a powder, to be taken every four hours. In gastric or spasmodic cough.

*A. T. Thomson.*

## COMPOUND PILLS OF OXIDE OF ZINC.

R. Oxide of zinc                    five grains  
Extract of cascarilla                    six grains  
Syrup of ginger                                sufficient

Mix, and make three pills; one to be taken three times a-day, in epilepsy. *Ainslie.*

R. Oxide of zinc one scruple  
Powdered valerian thirty grains  
Castor four grains  
Syrup sufficient

Mix, and make twelve pills. To be taken during the day, in epilepsy, &c. *Foy.*

#### LOTION WITH OXIDE OF ZINC.

R. Oxide of zinc one ounce  
Elder flower water one fl. ounce and a-half  
Agitate together. In pustular erysipelas. *Augustin.*

#### OINTMENT OF OXIDE OF ZINC.

R. Oxide of zinc one ounce  
Lard six ounces  
Mix. *U. S. Ph.*

A mild, astringent application, in chronic ophthalmia, and in excoriation and ulceration.

#### OINTMENT OF OXIDE OF ZINC AND OPIUM.

R. Oxide of zinc half a drachm  
Fresh butter one drachm  
Powdered opium one grain  
Mix. In chronic impetigo. *Henke.*

#### OINTMENT OF OXIDE OF ZINC AND CALOMEL.

R. Oxide of zinc half a drachm  
Calomel  
Powdered aloes, each, one grain  
Fresh butter two drachms  
Mix. In serofulous ophthalmia. *Scarpa.*

#### CERATE OF OXIDE OF ZINC AND LYCOPODIUM.

R. Oxide of zinc  
Lycopodium, each, fifteen grains  
Simple cerate half an ounce  
Mix. In ulceration of the breasts, tetter, &c. *Hufeland.*

### ZINCI CHLORIDUM.

#### CHLORIDE OF ZINC.

R. Zinc, in small pieces, two ounces and a-half  
Nitric acid  
Prepared chalk, each, one drachm  
Muriatic acid sufficient

Add the zinc and muriatic acid together in a glass vessel, and dissolve; strain, add the nitric acid, evaporate to dryness. Dissolve in water, add the chalk, let rest for twenty-four hours, filter, and again evaporate. *U. S. Ph.*

R. Solution of chloride of barium at will

Solution of sulphate of zinc sufficient to precipitate sulphate of baryta. Filter and evaporate the fluid to obtain crystals of chloride of zinc. *Righini.*

Principally used externally, as a caustic and stimulant; also given internally, in very small doses, in the neuroses, &c.

#### CHLORIDE OF ZINC. (*Disinfectant.*)

R. Granulated zinc four pounds (av.)  
Muriatic acid four pounds, or sufficient  
Water two gallons two pints  
Add the acid gradually to the zinc, in a glass or porcelain vessel, till it is dissolved, taking care there is no excess of acid; strain through a coarse cloth, and add the water. This contains one part of the chloride in twelve, and is of the strength for a disinfectant. *E. Parrish.*

#### ETHEREAL TINCTURE OF CHLORIDE OF ZINC.

R. Chloride of zinc four drachms  
Alcohol one fl. ounce  
Sulphuric ether two fl. ounces  
Mix. Five drops every four hours, in a little sugar and water, gradually increasing the dose, in chorea, epilepsy, &c. *Hufeland.*

#### LOTION OF CHLORIDE OF ZINC.

R. Chloride of zinc eight grains  
Extract of aloes two scruples  
Distilled water four fl. ounces  
Mix. As an application to atonic and foul ulcers. *Vogt.*

#### INJECTION OF CHLORIDE OF ZINC.

R. Liquid chloride of zinc twenty-four drops  
Water four fl. ounces  
Mix, and filter. A small quantity to be injected a short distance into the urethra, two or three times a-day, in gleet. *Gaudriot.*

#### VAGINAL SUPPOSITORY OF CHLORIDE OF ZINC.

R. Liquid chloride of zinc five drops  
Sulphate of morphia half a grain  
Mix with the following paste, three drachms.

Mucilage of tragacanth six parts  
White sugar three parts  
Starch nine parts

Make a suppository. To be used every day, or every other day. *Gaudriot.*

#### PASTE OF CHLORIDE OF ZINC.

R. Chloride of zinc one part  
Wheat flour, or sulphate of lime, four parts  
Water sufficient

- R. Chloride of zinc                      one part  
 Wheat flour                              three parts  
 Water                                        sufficient
- R. Chloride of zinc                      one part  
 Wheat flour                              two parts  
 Water                                        sufficient

The chloride and flour are to be carefully and quickly mixed; add the water to half the quantity, so as to form a soft paste, mix with this the rest of the powder. Form into cakes of half a line to four lines in thickness. To remain on twenty-four hours, or more (six to ten are often sufficient). To produce an eschar in cancer, lupus, &c. *Canquoin.*

- R. Chloride of zinc                      one part  
 Chloride of antimony                  half a part  
 Flour                                        two and a-half parts  
 Water                                        sufficient

To be mixed as above, so as to be moulded into any desired form. As a caustic, in nodulated cancerous tumors.

*Canquoin.*

Powdered opium may be added to any of the above, to mitigate the pain.

## ZINCI CYANURETUM.

### CYANIDE OF ZINC.

- R. Sulphate of zinc                      one part  
 Distilled water                          ten parts
- Dissolve; add

Solution of cyanide of potassium                      sufficient  
 to form precipitate, being added by drops. Filter, wash the precipitate, and dry.

*Guibourt.*

Used in spasmodic affections, &c., in doses of a twelfth to a quarter of a grain.

### POWDER OF CYANIDE OF ZINC.

- R. Cyanide of zinc                      three grains  
 Magnesia                                  twenty-four grains  
 Powdered cinnamon                  twelve grains
- Mix, and divide into twelve powders. One, every four hours, in nervous affections, &c. *Guibourt.*

### PILLS OF CYANIDE OF ZINC.

- R. Cyanide of zinc                      fifteen grains  
 Extract of liquorice                  two drachms
- Mix, and make sixty pills. One, three times a-day. *Kopp.*

## ZINCI FERROCYANURETUM.

### FERROCYANIDE OF ZINC.

- R. Ferrocyanide of potassium        sixty parts

Sulphate of zinc                      eighty parts  
 Dissolve separately in boiling water, add the solutions together; collect the precipitate of ferrocyanide of zinc, wash it well, and dry. *Schindler.*

Given in doses of one grain, twice or thrice a-day, gradually increasing the quantity, in nervous affections, nocturnal pains, &c.

### POWDER OF FERROCYANIDE OF ZINC.

- R. Ferrocyanide of zinc                  six grains  
 Magnesia                                  four grains  
 Powdered cinnamon                  three grains
- Mix. Every four hours, in nervous affections, cramp of the stomach, &c. *Radius.*

The quantity of the salt of zinc is too large, but it is thus ordered in various authors.

### COMPOUND PILLS OF FERROCYANIDE OF ZINC.

- R. Ferrocyanide of zinc                  fifteen grains  
 Powdered valerian                      half a drachm  
 Extract of valerian                      sufficient
- Mix, and make sixty pills. Two, morning and evening, in chorea. *Rosensteil.*

- R. Ferrocyanide of zinc                  ten grains  
 Magnesia                                  two scruples  
 Oil of valerian                          twenty drops  
 Syrup of chamomile                      five scruples  
 Powdered valerian                      ten scruples

Mix, and make into three-grain pills. Six, three times a-day, gradually increasing. *Vogt.*

### SOLUTION OF FERROCYANIDE OF ZINC.

- R. Ferrocyanide of zinc                  four grains  
 Distilled water                          two fl. ounces
- One-fourth part, four times a-day, in chorea. *Radius.*

### MIXTURE OF FERROCYANIDE OF ZINC.

- R. Ferrocyanide of zinc                  eight to twenty grains  
 Powdered gum Arabic                  two drachms  
 Cherry water                              three fl. ounces  
 Wine of opium                              one fl. scruple  
 Cherry laurel water                      half a fl. ounce
- Mix. As a collyrium, in serofulous and rheumatic ophthalmia. *Ammon.*

## ZINCI IODIDUM.

### IODIDE OF ZINC.

- R. Iodine                                  one hundred and seventy parts  
 Powdered zinc                              twenty parts
- Heat in matrass till they sublime. *Magendie.*

- R. Iodine                                  two parts  
 Powdered zinc                              one part



Digest in a little water, and agitate till the solution is colorless. Evaporate with a gentle heat. *Beasley.*

Used externally.

#### OINTMENT OF IODIDE OF ZINC.

R. Iodide of zinc                    one drachm  
Lard                                    one ounce  
As a friction to tumors, &c. *Ure.*

#### COLLYRIUM OF IODIDE OF ZINC.

R. Iodide of zinc                    four grains  
Distilled water                    six fl. ounces  
Dissolve.

#### SOLUTION OF IODIDE OF ZINC.

R. Iodide of zinc                    ten to thirty grains  
Distilled water                    one fl. ounce  
Dissolve. To be applied, by means of a sponge tied to a quill, to enlarged tonsils; to be followed, after some days' perseverance, by a saturated solution applied by a camel's hair brush. *T. Ross.*

#### SYRUP OF IODIDE OF ZINC.

R. Iodine                                four drachms  
Powdered zinc                    two drachms  
Water                                    four fl. ounces  
Agitate till colorless; filter into  
Syrup                                    twelve fl. ounces.  
*A. T. Thomson.*

### ZINCI ACETAS.

#### ACETATE OF ZINC.

R. Acetate of lead                    one pound  
Granulated zinc                    nine ounces  
Distilled water                    three pints  
Dissolve the acetate in the water, and filter. Add the zinc, and agitate occasionally, in a stopped bottle, till the liquid gives no precipitate, with a solution of iodide of potassium. Filter, evaporate by a gentle heat to one-fifth, and set aside to crystallize. Decant, and dry the crystals on bibulous paper. If they are colored, dissolve in distilled water, heat, and drop into the hot solution a filtered solution of chlorinated lime, as long as any precipitate of iron takes place; filter, acidulate with a few drops of acetic acid, evaporate, and crystallize. *U. S. Ph.*

Used as an external application.

#### COLLYRIUM OF ACETATE OF ZINC.

R. Sulphate of zinc  
Acetate of lead, each,                    six grains  
Rose-water                                four fl. ounces  
Mix, and filter. *Ellis.*  
R. Acetate of zinc fifteen to thirty grains

Distilled water                    twelve fl. ounces  
Dissolve. *Ware.*

R. Sulphate of zinc                    one drachm  
Acetate of lead                    half a drachm  
Camphor                                one scruple  
Rose water                                twelve ounces  
Filter the solution. *Spelman.*

#### INJECTION OF ACETATE OF ZINC.

R. Acetate of zinc                    eight grains  
Rose water                                four fl. ounces  
Dissolve. In gonorrhœa. *Ellis.*

#### LOTION OF ACETATE OF ZINC.

R. Acetate of zinc                    four scruples  
Distilled vinegar                    sixteen fl. ounces  
Dissolve. *Beral.*

#### TINCTURE OF ACETATE OF ZINC.

R. Sulphate of zinc  
Acetate of potassa, each,                    one ounce  
Rub together, and add  
Diluted alcohol                    one pint  
Macerate for a week, stirring occasionally, and filter. *Dub. Ph.*  
As collyrium and injection, properly diluted.

### ZINCI CARBONAS.

#### CARBONATE OF ZINC, OR CALAMINE.

##### PREPARED CARBONATE OF ZINC.

R. Carbonate of zinc                    at will  
Heat it to redness, and pulverize; then reduce to a very fine powder, as directed for prepared chalk. *U. S. Ph.*  
Used externally, as a mild astringent and absorbent to excoriations and ulcerations, and also as an ingredient of cerates, &c.

##### PRECIPITATED CARBONATE OF ZINC.

R. Sulphate of zinc  
Carbonate of soda, each,                    two pounds  
Water                                    sufficient  
Dissolve the salts separately in a gallon of water, mix the solutions; wash the precipitated carbonate, first by decantation, and afterwards on a filter; then press, and dry it.

##### CERATE OF CARBONATE OF ZINC.

R. Prepared carbonate of zinc  
Yellow wax, each,                    half a pound  
Lard                                        two pounds  
Melt the lard and wax together, and when, on cooling, they begin to thicken, add the carbonate of zinc, and stir till cold. *U. S. Ph.*

Much used as a dressing to excoriations, shallow ulcerations, &c.

## PLASTER OF CARBONATE OF ZINC.

R. Simple plaster  
Powdered carbonate of zinc, each, two pounds  
Yellow wax five ounces  
Suet  
Turpentine, each, one ounce and a-half  
Melt, and mix thoroughly. *Van Mons.*

R. Prepared carbonate of zinc  
White lead, each, one ounce and a-half  
Yellow wax four ounces  
Olive oil six ounces  
Melt the wax with the oil, and add the two powders, stirring well. To diminish a too abundant suppuration in ulcers.  
*Cadet.*

## ZINCI SULPHAS.

## SULPHATE OF ZINC.

R. Zinc, in small pieces, four ounces  
Sulphuric acid six ounces  
Distilled water four pints  
Introduce the zinc and water into a glass vessel, and add the sulphuric acid by degrees; when all effervescence has ceased, filter, boil to a pellicle, and set aside to crystallize. *U. S. Ph.*

It is astringent, tonic, and, in large doses, a prompt and effective emetic. Dose, as a tonic, one to two grains; as emetic, ten to thirty.

## PILLS OF SULPHATE OF ZINC.

R. Sulphate of zinc ten grains  
Conserve of roses sufficient  
Mix, and make twenty pills. One, three times a-day. In pertussis, &c. *Ellis.*

## PILLS OF SULPHATE OF ZINC AND TURPENTINE.

R. Sulphate of zinc two drachms  
Venice turpentine sufficient  
Mix, and make sixty pills. As a tonic. *Beasley.*

## PILLS OF SULPHATE OF ZINC AND MYRRH.

R. Sulphate of zinc ten grains  
Powdered myrrh one drachm and a-half  
Conserve of roses sufficient  
Mix, and make twenty pills. From two to four pills a-day, in whooping-cough. *Paris.*

## COMPOUND PILLS OF SULPHATE OF ZINC.

R. Sulphate of zinc one grain  
Extract of gentian eight grains  
Syrup of ginger sufficient  
Mix, and make two pills, to be taken dur-

ing the day, with two fl. drachms of infusion of chamomile, in epilepsy. *Ainslie.*

## SOLUTION OF SULPHATE OF ZINC.

R. Sulphate of zinc two grains  
Chamomile water three fl. ounces  
Dissolve. A spoonful, two or three times a-day, in chronic dysentery. *Radiis.*

## COLLYRIUM OF SULPHATE OF ZINC.

R. Sulphate of zinc six grains  
Acetate of lead ten grains  
Laudanum one drachm  
Water five fl. ounces  
Mix. As an application to the eyes in ophthalmia, after reduction of the inflammation. *Gregory.*

R. Sulphate of zinc six grains  
Mucilage of quince seed one fl. ounce  
Distilled water six fl. ounces  
Spirit of camphor four or five drops  
Mix, and strain. *Scarpa.*

To be used as the last.

## COLLYRIUM OF SULPHATE OF ZINC AND CAMPHOR.

R. Sulphate of zinc one scruple  
Camphor water  
Rose water, each, eight fl. ounces  
Mix. *Ainslie.*

## FOMENTATION WITH SULPHATE OF ZINC.

R. Sulphate of zinc one drachm and a-half  
Decoction of pomegranate four pints  
Peruvian bark two pints  
Laudanum one fl. ounce  
Mix. As an application to external piles, and in vaginal gonorrhœa. *Brera.*

## GARGLE OF SULPHATE OF ZINC.

R. Sulphate of zinc one drachm  
Honey half a fl. ounce  
Tincture of myrrh  
Brandy, each, one fl. ounce  
Rose water six fl. ounces  
Mix. In ulcerations of gums, &c., occasioned by excessive salivation. *Ellis.*

## INJECTION OF SULPHATE OF ZINC.

R. Sulphate of zinc one drachm  
Camphor water two fl. ounces  
Water two pints  
Mix. *Swediaur.*

R. Sulphate of zinc ten grains  
Powdered gum Arabic two drachms  
Laudanum one fl. drachm  
Distilled water eight fl. ounces  
Mix. In gonorrhœa. *Ellis.*

## LOTION OF SULPHATE OF ZINC.

R. Sulphate of zinc sixteen grains

Rose water	sixteen fl. ounces
Mix.	<i>Beral.</i>
R. Sulphate of zinc	half a drachm
Water	half a pint
Lead water	half a pint
Mix.	<i>Beasley.</i>
R. Sulphate of zinc	four scruples
Distilled vinegar	one pint
Mix.	<i>Beral.</i>

## SULPHATE OF ZINC MIXTURE.

R. Sulphate of zinc	one grain
Decoction of cascarilla	twelve fl. drachms
Simple syrup	four fl. drachms
Mix, to be divided into four doses, one to be taken three times a-day, in hooping-cough.	<i>Ainslie.</i>

## ZINCI VALERIANAS.

## VALERIANATE OF ZINC.

R. Valerian root, recent, one hundred parts  
 Water five hundred parts  
 Sulphuric acid ten parts  
 Bichromate of potassa six parts

Macerate the coarsely powdered valerian in the water, to which had been added the sulphuric acid and the bichromate, for twenty-four hours, introduce the mixture into a still, and apply heat; returning the first fourth of the product to the still; the process is then to be continued, until the distilled water ceases to reddens litmus paper. The product is then to be placed in a large matrass, and an excess of pure hydrated carbonate of zinc, is to be added, and allowed to digest at 190° F., for three or four hours, on a sand-bath, until saturated. The solution is then to be filtered and evaporated over a naked fire, till reduced to fifty parts, then placed on plates, and suffered to evaporate in a drying room, or by a moderate temperature. *Lefort.*

R. Contused valerian thirty-two ounces  
 Water eight pounds  
 Sulphuric acid three ounces

Macerate for two days, and distil as long as the product reddens litmus paper. Expose to the air for a month, then put it in a matrass with two hundred and twenty-five grains of recently prepared oxide of zinc, and digest on a sand-bath for eight or ten hours, at 175° F. agitating occasionally; filter whilst hot, evaporate to three-fourths, and dry the residue on earthen plates. *Buisson.*

Has been recommended as a powerful tonic and antispasmodic, in neuralgia and hysteria, but has not been sufficiently tried to ascertain its true powers. Dose, one to two grains.

## PILLS OF VALERIANATE OF ZINC.

R. Valerianate of zinc nine grains  
 Tragacanth thirty grains  
 Mix, and make twelve pills. One, morning and evening, in nervous headache, &c. *Devay.*

## MIXTURE OF VALERIANATE OF ZINC.

R. Valerianate of zinc one grain and a-half  
 Distilled water five drachms, twenty drops  
 Syrup one ounce  
 Mix. A spoonful, every half hour. *Devay.*

## ZINGIBER.

## GINGER.

The rhizome of *Zingiber officinale*, a small, herbaceous, perennial plant, a native of the East Indies.

*Sex. Syst.* Monand. monog. *Nat. Syst.* Zingiberaceæ.

Roscoe, Trans. Linn. Soc. viii. 348. Griffith, Med. Bot. 629.

The rhizome, or root, is creeping, knotty, lobated or palmated, and fleshy, with an agreeable, pungent, camphoraceous odor, and an aromatic, acrid, burning taste. Two kinds are met with in commerce, the black and the white; the first consists of the roots, scalded in hot water and dried; the second is composed of these roots, deprived of their epidermis previous to desiccation. Ginger contains a volatile oil, a soft, acrid resin, some gum, various salts, and the usual vegetable constituents. It is stimulant; somewhat acrid, aromatic, and stomachic. It is given in doses of ten grains to a scruple, or more.

## GINGER LOZENGES.

R. Powdered ginger two ounces  
 sugar fourteen ounces

Gum tragacanth  
 Water, each, twelve drachms

Mix well, and form lozenges of sixteen grains, each. *Soubéiran.*

## SYRUP OF GINGER.

R. Ginger, sliced, three ounces  
 Boiling water three pints

Infuse for four hours, strain, and add double its weight of sugar, and form syrup. *Guibourt.*

## GINGER BEER.

R. Sugar three pounds  
 Bruised ginger two ounces  
 Cream of tartar one ounce  
 Lemons, sliced, four



Yeast eight fl. ounces  
 Boiling water four gallons  
 Pour the water on the four first-named ingredients, infuse for two hours, strain, add the yeast, and, when fermentation has commenced, pour into strong bottles, and wire down the corks. *Redwood.*

R. White sugar twenty pounds  
 Lemon juice eighteen fl. ounces  
 Honey one pound  
 Bruised ginger seventeen ounces  
 Water eighteen gallons

Boil the ginger in three gallons of the water for half an hour; add the sugar, lemon juice, and honey, with the remainder of the water, and strain; when cold, add the white of an egg, and half a fl. ounce of essence of lemon; let rest for four days, and bottle. *Pereira.*

## OIL OF GINGER.

R. Ginger one part  
 Water six parts  
 Digest for five or six days; distil, and collect the oil.

## ETHEREAL EXTRACT OF GINGER.

R. Ginger four ounces  
 Sulphuric ether six ounces  
 Treat the powdered ginger with the ether, in a displacement apparatus, and evaporate the product by means of a water-bath; one part corresponds to sixteen of ginger. *Beral.*

## TINCTURE OF ETHEREAL EXTRACT OF GINGER.

R. Ethereal extract of ginger one part  
 Alcohol (.825) fifteen parts  
 Dissolve. *Beral.*

## SYRUP OF ETHEREAL EXTRACT OF GINGER.

R. Ethereal extract of ginger one scruple  
 Syrup of sugar one ounce  
 Dissolve, and strain, after twenty-four hours' digestion. *Beral.*

## ESSENCE OF GINGER.

R. Jamaica ginger four ounces  
 French brandy one pint  
 Powder the ginger coarsely, moisten it with the brandy, put it in a displacer, and pour the remainder of the brandy on it; when it ceases to pass, add diluted alcohol, till one pint has passed in all.

## SPICE PLASTER.

R. Powdered ginger two ounces  
 cloves  
 cinnamon, each, one ounce  
 red pepper two drachms  
 Tincture of ginger half an ounce  
 Honey sufficient  
 Mix the powders; add the tincture, and sufficient honey to make of proper consistence for a stiff cataplasm. *W. Procter.*

## DIETETIC PREPARATIONS.

NOT INCLUDED AMONG THE PREVIOUS PRESCRIPTIONS.

### TOUS LES MOIS.

This is a variety of arrowroot, prepared from the rhizomes of a species of *Canna*, and is to be employed in the same manner, and in same cases, as arrowroot.

### MUCILAGE OF SALEP.

Salep is the prepared bulbs of several species of orchidaceous plants. It is more nutritive than arrowroot or sago, and hence is adapted for the convalescent, rather than for the sick. These roots are powdered with much difficulty. The mucilage is prepared by dissolving the powder in boiling water, constantly stirring, and adding to the solution sugar and milk. *Soubeyran* orders powdered salep, half an ounce, to be boiled with a sufficient quantity of water till dissolved, four ounces of sugar added, and to be aromatized according to taste.

### BISCUIT JELLY.

- ✓ White biscuit, four ounces, to be boiled down in four pints of water, to one-half, strained, and evaporated to one pint; one pound of white sugar, four ounces of port wine, and one drachm of cinnamon water added, and the whole well mixed. It has been found useful in debility of the digestive organs. *A. T. Thomson.*

### BREAD JELLY.

- ✓ Cut a French roll into slices, toast these on both sides, and boil in a quart of water, until the whole forms a jelly, adding more water if required; strain, and flavor. This is nutritious, and may be made more so by using broth, wholly deprived of fat, instead of water. *Cooley.*

### PANADA.

- ✓ Stale wheat bread, one ounce; cinnamon, one drachm; water, one pint; cover up and let stand for an hour, beat up and boil for ten minutes, adding a little grated nutmeg

and sugar. Wine may be added, if required. *Ellis.*

### COMPOUND SALEP POWDERS.

Powdered salep, tragacanth, and sago, each, four ounces; cochineal, half a drachm; prepared oyster shells, one ounce. These are to be carefully mixed and divided into powders, of one drachm each. Stir one of these into a pint of milk, and boil for ten or fifteen minutes. To be taken freely in diarrhoea and dysentery. *Ellis.*

These are known as *Castanella's powders*, for which the following is used as a substitute. Powdered gum Arabic, tragacanth, arrowroot, sago, and tapioca, each, two drachms. Mix them well together, boil in a pint of milk, flavored with nutmeg or cinnamon. Used as a diet in dysentery, diarrhoea, &c.

### VEGETABLE BROTH.

Take two potatoes, one carrot, one turnip, and one onion. Slice them, and boil in a quart of water for an hour, adding more water from time to time, so as to keep up the original quantity; flavor with salt and a small portion of potherbs; strain. When advisable, a small quantity of mushroom catsup added to this broth greatly improves its taste.

A good substitute for animal food, when this last is inadmissible. *Ellis.*

### GLOUCESTER JELLY.

Rice, sago, pearl barley, hartshorn shavings, eryngium root, each, one ounce; boil in three pints of water to one pint, and strain. This is very nutritive, dissolved in broth, milk, or wine. *A. T. Thomson.*

### ALMOND JELLY.

Blanched sweet almonds and white sugar, each, one ounce; water, four ounces; make an emulsion; strain, and add melted hartshorn jelly, half a pound; orange-flower

water one drachm; and essence of lemon two or three drops.

*Coolcy.*

#### BOILED FLOUR.

Take of fine flour a pound, tie it up in a linen cloth as tight as possible, and after frequently dipping it into cold water, dredge the outside with flour, till a crust is formed round it, which will prevent the water soaking into it, whilst boiling. Boil for a long time, and permit to cool, when it will become a hard, dry mass.

This to be grated and prepared like arrowroot. A good diet for children, in diarrhoea, &c. *Ellis.*

#### BEEF TEA.

Take of lean beef, cut into shreds, one pound; water, one quart. Boil for twenty minutes, removing any scum that arises. When it has become cold, strain. *Ellis.*

Take half a pound of good rump stake, cut it into thin slices, and spread these in a hollow dish; sprinkle a little salt over them, and pour upon the whole a pint of boiling water. Cover the dish and place it near the fire for half an hour; then remove to a pan and boil for fifteen minutes; strain through a fine sieve.

The quantity of water is too small for the strength of the tea for invalids, but is sufficient to extract all the soluble parts of the beef, and the tea can be reduced to the proper strength by the addition of boiling water. *A. T. Thomson.*

#### ESSENCE OF BEEF.

Take of lean beef, sliced, a sufficient quantity to fill the body of a porter bottle, cork up loosely, and place it in a pot of cold water, attaching the neck, by means of a string, to the handle of the pot. Boil for an hour and a-half to two hours, then decant the liquid and skim it.

To this preparation may be added spices, salt, wine, brandy, &c., according to the taste of the patient and nature of the disease. *Ellis.*

#### MUTTON TEA.

Take one pound of good mutton, freed from the fat, and cut into thin slices; pour over it a pint and a-half of boiling water, in the same manner as directed for beef tea; but it requires to be boiled for half an hour, previous to straining. If the invalid desires the addition of barley, an ounce of clean pearl barley, washed, and macerated in boiling water for an hour, may be boiled

with the mutton tea, and the undissolved barley, separated by straining.

*A. T. Thomson.*

#### VEAL TEA.

This is to be made in the same manner as beef tea, using a pound of the fillet of veal, free from fat and sliced, and a pint and a-half of boiling water; boiling for half an hour. It may also be made with the same quantity of the fleshy part of a knuckle of veal. By boiling this latter down to one-half, and straining, the decoction will gelatinize, and, if poured into small cups, will keep good for several days. By the addition of an equal quantity of boiling water to this jelly, it is fit for use in a few minutes. *A. T. Thomson.*

#### CHICKEN WATER.

Take half a chicken, divested of all fat, and break the bones; add to this half a gallon of water, boil for half an hour, strain, and season with salt. *Ellis.*

Take a small chicken, free it from the skin, and from all the fat between the museles; divide it longitudinally into halves; remove the lungs, liver, &c., then cut it, bones and museles, into thin slices, put these into a pan with a sufficient quantity of salt; add a quart of boiling water, cover the pan, and simmer slowly for two hours; strain through a fine sieve.

*A. T. Thomson.*

#### CALVES' FOOT JELLY.

Take two calves' feet, and add to them one gallon of water, and boil down to one quart; strain, and when cold, remove all fat; then add the white of six or eight eggs, well beaten; a pint of wine, half a pound of loaf sugar, and the juice of four lemons, and mix well. Boil for a few minutes, constantly stirring; then strain through a flannel bag. The wine may be omitted if necessary. *Ellis.*

#### TOAST WATER.

Toast thoroughly a slice of stale bread, put it in a jug and pour over it a quart of water, which has been boiled and cooled, and in two hours decant; a small piece of orange or lemon peel put into the jug with the bread, improves the flavor greatly.

This forms a good drink in febrile affections. *A. T. Thomson.*

#### APPLE WATER.

Slice two large apples, and pour over the



slices a pint of boiling water. Let stand for an hour, and decant; if necessary, sweeten with a little white sugar.

*A. T. Thomson.*

It is also prepared by boiling for an hour ten ounces of sliced apple in two pints of water, and straining. *Soubeyran.*

#### LEMON-PEEL WATER.

Pare the rind of one lemon, which has been previously rubbed with half an ounce of refined loaf sugar, put the peeling and sugar into a jar, and pour over them a quart of boiling water. When cold, pour off the fluid, and add a tablespoonful of lemon juice. If wine be not improper, a glass of sherry may be added, instead of the lemon juice. *A. T. Thomson.*

#### BRAN TEA.

Fresh wheat bran one pound, water three quarts. Boil down to one quart, strain, and add sugar, honey, or molasses, according to the taste of the patient.

#### CHICKEN PANADA.

Take the white meat of a boiled or roasted chicken, free it from the skin, and cut it into small morsels; pound these in a mortar with an equal quantity of stale bread, and a sufficiency of salt, adding gradually some of the water in which the chicken has been boiled, or some beef tea, until the whole forms a thin, fluid paste; put this into a pan, and boil for ten minutes, continually stirring.

*A. T. Thomson.*

#### MUTTON BROTH.

Take a pound of mutton, freed from fat, put it into a pan with three pints of water, and simmer for two hours. Take three carrots, the same number of turnips, peel, and cut them in slices, boil them for half an hour in a quart of water, throw them on a colander to drain off the water, and having boiled two onions sliced in a pint of water, and poured off the water, add the whole of these vegetables to the mutton liquor; after removing the meat, season with salt and a little celery seed. Simmer slowly for four hours, put in the meat again, and continue to simmer for another hour. The meat may be served with the broth. A palatable and very nutritive dish for convalescents.

*A. T. Thomson.*

#### FOWL WITH RICE.

Free a young fowl from the skin and the fat on the exterior of the body, and sim-

mer it in good beef tea, till it is very tender; season with salt, and, having boiled some rice, add it to the liquor before the fowl is dished. *A. T. Thomson.*

#### WATER SOUCHY.

Take two small, fresh flounders, boil them in a quart of water to one-third, or long enough to reduce the fish to a pulp; strain the liquor through a sieve, and, having cut off the fins of four other small flounders, put the latter into the liquor, with a sufficiency of salt, a few grains of cayenne pepper, and a small quantity of chopped parsley, and boil till the fish is perfectly done. The fish and liquor are to be eaten together.

Few dishes are more relished by convalescents from fever. *A. T. Thomson.*

Scale, gut, and wash two perch; put salt in the water; when it boils, put in the fish, with an onion cut into slices and separated into rings, a handful of parsley, picked and washed clean; when the fish are done, put them in a soup-dish, and pour the liquor over them. *Hofland.*

#### MULLED WINE.

Take a quarter of an ounce of bruised cinnamon, half a nutmeg, grated, and ten bruised cloves; infuse them in half a pint of boiling water for an hour, strain, and add half an ounce of white sugar; pour the whole into a pint of hot port or sherry wine.

A good cordial and restorative in the low stages of fever, or in the debility of convalescence from fevers. *A. T. Thomson.*

#### COLD CUSTARD.

Take the yolk and white of an egg, and a tablespoonful of sugar; beat together, till the tenacity of the white of the egg is entirely destroyed; add gradually, constantly stirring, a half a pint of cold water, two teaspoonfuls of rose water, and a little grated nutmeg. A wineglassful to be taken every two or three hours. *Dewees.*

#### MOLASSES POSSET.

Put in a saucepan a pint of best molasses, a teaspoonful of powdered white ginger, and a quarter of a pound of fresh butter. Simmer for half an hour, stirring frequently. Then stir in the juice of two lemons, or two tablespoonfuls of vinegar, cover the pan, and let it stand by the fire five minutes. *A. T. Thomson.*

#### CHICKEN JELLY.

Cut a chicken into small pieces, bruise the bones, and put the whole into a stone

jar, with a cover that fits water tight. Set the jar in a large kettle of boiling water, and keep it boiling for three hours. Then strain, and season with salt, pepper, and mace, or with loaf sugar and lemon juice, according to circumstances and taste.

*A. T. Thomson.*

#### CHOCOLATE.

Put milk and water on to boil; then scrape the chocolate fine, one or two squares to a pint, as will best suit the stomach; when the milk and water boils, take it off the fire, throw the chocolate into it, mill it well, and serve it up with the froth. The sugar may be mixed with the scraped chocolate, or added afterwards. It should never be made before it is wanted, as heating it again injures the flavor, and causes a separation of the oil. *Cooley.*

#### CHOCOLATE MILK.

Dissolve an ounce of scraped chocolate in a pint of boiling new milk. *Cooley.*

#### COFFEE MILK.

Boil a dessertspoonful of ground coffee in a pint of milk, for a quarter of an hour; then clear it with white of egg or isinglass, let it boil for a few minutes, and set it by the side of the fire to fine. Sweeten according to taste.

This is a suitable breakfast for those of spare habit, and disposed to affections of the lungs. *Cooley.*

#### RICE CUSTARD.

Boil half a cupful of the best ground rice in a pint of milk, until dissolved; then mix it with a quart of cream; flavor with nutmeg, mace, and a little brandy. *Cooley.*

#### FRUMENTY.

Bruised wheat, boiled in water until quite soft; drain, thin with milk, sweeten, and flavor according to taste.

The bruised wheat boiled to a paste, and, when cold, eaten with milk, in the evening, for some time, will often relieve costiveness.

#### GINGER BEER.

Take of white sugar, three pounds; bruised ginger, two ounces; cream of tartar, one ounce; lemons, sliced, four; boiling water, four gallons; yeast, eight ounces. Pour the water on the four first-named ingredients, and infuse for two hours; then strain, add the yeast, and, when fermenta-

tion has continued for some hours, put into stone bottles and tie down the corks.

*Gray.*

#### SPRUCE BEER.

Take of sugar, six pounds; essence of spruce, four ounces; boiling water, ten gallons; yeast, eight ounces. Add the water to the sugar and essence, ferment with the yeast, and bottle in the same way as ginger beer. *Gray.*

#### MOLASSES BEER.

Take of molasses, fourteen pounds; hops, a pound and a-half; water, thirty-six gallons; yeast, a pound. Boil the hops in the water, add the molasses, and ferment. *Gray.*

#### CAUDLE.

Into a pint of thin gruel, put, while it is boiling hot, the yolk of an egg, beaten with sugar, and mixed with a tablespoonful of cold water, a glass of wine, and some nutmeg; mix well together.

A nourishing, restorative mixture, given during convalescence. *Gray.*

#### BARLEY MIXTURE.

Take of pearl barley, sliced figs, stoned raisins, of each, two ounces and a-half; liquorice root, sliced and bruised, five drachms; water, five pints and a-half. Clean the barley by washing, boil it in four and a-half pints of the water, down to two pints; add the figs, raisins, and liquorice root, with the remaining pint of water; boil down to two pints, and strain.

This is nutritive and demulcent. *Gray.*

#### ARTIFICIAL ASSES' MILK.

Boil together a pint of water and an ounce of hartshorn shavings, until reduced to a jelly; add two ounces of white sugar; when cold, mix with a pint of new milk, and a teaspoonful of syrup of Tolu. To be taken freely, as a nutritive beverage.

*Cooley.*

#### ISINGLASS BLANCMANGE.

Isinglass, a quarter of a pound; rose water, half a pint; milk, two quarts; milk of almonds, half a pint. Boil to a proper consistence, and permit to cool.

*Hoffmann.*

#### RICE BLANCMANGE.

Ground rice, two ounces; milk, one pint; lump sugar, three ounces; a little lemon peel and cinnamon; dissolve the rice in

the milk, by boiling, reduce it to a proper consistence, then add the spice and sugar; boil for a few minutes, strain, and let cool. The rice should be rubbed up with a little water, before adding it to the milk, to prevent it from being in lumps.

*Cooley.*

a quarter of an ounce; sugar and butter, each, half a pound; make a paste with milk; add candied orange, lemon, or citron, or the fresh peel, grated, according to taste. They may be made with the same quantity of carbonate of magnesia, instead of the soda, and the candied peel omitted. In dyspepsia, with acidity.

*Cooley.*

#### SODA CAKES.

Flour, one pound; bicarbonate of soda,



## LIST OF INCOMPATIBLES.

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- ABSINTHIUM**, with sulphates of iron and zinc, acetates of lead, nitrate of silver, tartar emetic.
- ACACIA**, with Goulard's extract, alcohol, nitric acid, muriated tincture of iron.
- ACIDUM ACETICUM**, with alkalies, alkaline and earthy carbonates.
- ACIDUM CITRICUM**, with mineral acids, acetates of lead, nitrate and acetate of mercury, alkalies, alkaline sulphurets.
- ACIDUM ARSENIOSUM**, with lime water, hydrosulphate of potassa, astringent vegetable infusions and decoctions.
- ACIDUM GALLICUM**, with lime water, carbonate of potassa, acetate of lead, sulphate of copper, nitrate of silver, iodide of iron, sulphate of iron, tartar emetic, nitrate of silver, solution of isinglass, solution of opium, &c.
- ACIDUM HYDROCYANICUM**, with mineral acids, metallic oxides, chlorine, &c.
- ACIDUM MURIATICUM**, with alkalies and their carbonates, alkaline earths, metallic oxides, sulphuret of potassium, tartrate of potassa, and most metallic salts, especially those of silver.
- ACIDUM NITRICUM**, with the metallic oxides, the salifiable bases, the essential oils, &c.
- ACIDUM NITRO MURIATICUM**, with oxides, earths and alkalies, the sulphurets, &c.
- ACIDUM PHOSPHORICUM**, with the soluble salts of lime, baryta, and lead.
- ACIDUM SULPHURICUM**, with the earths, alkalies, and their carbonates, the sulphurets, &c.
- ACIDUM TANNICUM**, per salts of iron, albumen, gelatin, &c.
- ACIDUM TARTARICUM**, with alkalies and their carbonates, and the salts of potassa.
- ÆTHER HYPONITROSUS**, with alcoholic solution of caustic potassa.
- ÆTHER MURIATICUS**, with solution of caustic potassa.
- ALUMINÆ ET POTASSÆ SULPHAS**, with the alkalies and alkaline carbonates, lime, magnesia, acetate of lead, infusion of galls, &c.
- AMMONIA**, with acids, mineral salts, alum, &c.
- AMMONIÆ ACETAS**, with alkalies, strong acids, corrosive sublimate, nitrate of silver, &c.
- AMMONIÆ CARBONAS**, with acids, caustic potassa, magnesia, alum, chloride of calcium, bitartrate and bisulphate of potassa, the salts of iron, bichloride of mercury, salts of lead, sulphate of zinc, &c.
- AMMONIÆ MURIAS**, with sulphuric and nitric acids, salts of lead and silver, potassa, the carbonates of potassa and soda, lime, &c.
- ANGUSTURA**, with sulphates of iron and copper, nitrate of silver, tartar emetic, acetates of lead, bichloride of mercury, potassa, infusion of galls, &c.
- ANTHEMIS**, with solution of gelatin, infusions containing gallic acid, salts of iron, nitrate of silver, salts of lead, bichloride of mercury, &c.
- ANTIMONII SULPHURETUM**, with nitric and nitro-muriatic acids.
- ANTIMONII ET POTASSÆ TARTRAS**, with alkalies and earths, and their carbonates, strong acids, hydrosulphurets, lime water, chloride of calcium, salts of lead, soaps, infusions containing gallic acid, rhubarb, &c.
- ARMORACIA**, with carbonates of the alkalies, bichloride of mercury, nitrate of silver, vegetable bitters and astringents, &c.
- ARGENTI NITRAS**, with the fixed alkalies, sulphuric, muriatic, and arsenious acids, and their salts, lime, the chlorides and sulphurets, astringent vege-

- table infusions, solutions of the salts of mereury and eopper, &c.
- ARNICA, with sulphates of iron and zine, acetate of lead, mineral acids, &c.
- AURANTII CORTEX, with infusion of bark, sulphate of iron, lime water, &c.
- BARYTÆ MURIAS, with alum, nitrate of silver, &c.
- BENZOINUM, with the acids and alkalies.
- BISTORTA, with salts of iron, gelatin, &c.
- BELLADONNA, with caustic alkaline solutions.
- BISMUTHI NITRAS, with the alkalies, vegetable astringents.
- CALAMUS, with acetate of lead.
- CALCII CHLORIDUM LIQUOR, with carbonates of soda and potassa, and carbonate of magnesia, &c.
- CALCIS LIQUOR, with the mineral and acetic, phosphoric, tartaric, and citric acids, muriate of ammonia, the alkaline carbonates, soap, the vegetable astringents, alum, sulphates of iron and zine, sulphate of magnesia, chlorides of mereury, nitrate of silver.
- CALCIS CARBONAS, with the acids and acidulous salts, alum, muriate of ammonia.
- CAPSICUM, with corrosive sublimate, acetate of lead, nitrate of silver, sulphates of iron, zine, or eopper, carbonates of the alkalies.
- CARDAMOMUM, with the acids, sulphate of iron, bichloride of mereury, &c.
- CARYOPHYLLUS, with tartar emetic, sulphates of iron and zine, &c.
- CASCARILLA, with lime water, sulphates of iron and zine, infusions containing gallic acid.
- CASSIA FISTULÆ, with alcohol.
- CATECHU, with alkalies, the salts of iron, gelatin, &c.
- CINCHONA, with strong acids, alkalies, sulphates of iron and zine, nitrate of silver, tartar emetic, lime, magnesia, &c.
- COCCUS, with acetate of lead, sulphate of zine and iron.
- COLCHICUM, with acids which render the vinous tincture drastic; alkalies, on the contrary, render it milder in its operation.
- COLOCYNTHIS, with fixed alkalies, sulphate of iron, nitrate of silver, acetate of lead, &c.
- COLUMBA, with ammonia, lime water, mineral acids, muriate of iron, nitrate of silver, acetate of lead, isinglass.
- CONIUM, with the acids.
- CONTRAYERVA (tincture), with water.
- COPAIBA, with the mineral acids.
- COPTIS TRIFOLIATA, with nitrate of silver, acetate of lead.
- CRETA PRÆPARATA, with acids and acidulous salts, alum, muriate of ammonia.
- CUPRUM AMMONIATUM, with acids, potassa and soda, lime water.
- CUPRI SULPHAS, with fixed alkalies, ammonia, and its carbonate, bichloride of mereury, arsenite of potassa, nitrate of silver, acetate of lead, vegetable infusion, &c.
- CYDONIA, with acids, most metallic salts, alcohol.
- DIGITALIS, with sulphate of iron, infusion of Peruvian bark, acetate of lead.
- FERRUM AMMONIATUM, with acids, the fixed alkalies, lime water, astringent infusions.
- FERRI IODIDUM, with fixed alkalies, lime water, vegetable astringents, &c.
- FERRI ET POTASSÆ TARTRAS, with the mineral acids, alkalies, vegetable astringents.
- FERRI SUBCARBONAS, with the mineral acids, acidulous salt, &c.
- FERRI MURIATIS TINCTURA, with alkalies and their carbonates, lime water, carbonate of lime, magnesia, and its carbonate, solution of gum, vegetable astringents.
- FERRI SULPHAS, with nitric acid, fixed alkalies, and their carbonates, lime water, nitrate of potassa, borate of soda, acetate of lead, iodide of potassium, vegetable astringents, &c.
- GALLA, with the carbonates of the alkalies, lime water, sulphates of iron and zine, acetate of lead, bichloride of mereury, gelatin, &c.
- GUAIACI TINCTURE, with water, the mineral acids, spirit of nitric ether, earthy and metallic salts, &c.

- GRANATUM (*Cortex*), with sulphate of iron, &c.
- HÆMATOXYLON, with mineral acids, solution of alum, sulphate of iron and copper, tartar emetic, acetate of lead.
- HYDRARGYRUM AMMONIATUM, with muriatic acid, the fixed alkalies.
- HYDRARGYRI CHLORIDUM MITE, with the alkalies, lime, muriate of ammonia, chlorides of potassium and sodium, carbonates of the alkalies, nitric acid, salts of iron, lead, and copper, iodide of potassium, soaps, &c.
- HYDRARGYRI CHLORIDUM CORROSIVUM, with alkalies and their carbonates, carbonates of lime, tartar emetic, sulphuret of potassium, soaps, iron, copper, lead, and their salts, nitrate of silver, albumen, gelatin, vegetable astringents, fixed oils, &c.
- HYDRARGYRI OXIDUM RUBRUM, with the mineral acids.
- HYDRARGYRI OXIDUM NIGRUM, with the mineral and acetic acids.
- HYDRARGYRI IODIDUM, with the mineral acids, iodide of potassium, chloride of sodium.
- HYDRARGYRI IODIDUM RUBRUM, with the mineral acids, iodide of potassium, chloride of sodium.
- HYDRARGYRUM CUM CRETA, with the mineral and acetic acids, alum, &c.
- HYOSCYAMUS, with acetate of lead, nitrate of silver, sulphate of iron.
- IODINE.
- IPECACUANHA, with the vegetable acids, the vegetable astringents, acetate of lead, &c.
- KINO, with the salts of iron, the mineral acids, tartar emetic, &c.
- KRAMERIA, with salts of iron, gelatin, mineral acids, &c.
- LUPULUS, with the salts of iron.
- MAGNESIA, with acids and acidulous salts, muriate of ammonia, metallic salts.
- MAGNESIÆ CARBONAS, with acids and acidulous salts, metallic salts, lime water, muriate of ammonia, bitartrate of potassa.
- MAGNESIÆ SULPHAS, with ammonia, acetate of lead, chloride of calcium, lime water, potassa and soda, and their carbonates, &c.
- MENTHA, with sulphate of iron, nitrate of silver, acetate of lead, &c.
- MORPHIÆ ACETAS, with alkaline carbonates, ammonia, all articles incompatible with infusion of opium, except acetate of lead.
- MORPHIÆ MURIAS, with acetate of lead, ammonia, alkaline carbonates, &c.
- MOSCHUS, with mineral acids, bichloride of mercury, sulphate of iron, nitrate of silver, infusion of bark, &c.
- OPIUM, with ammonia, carbonates of potassa and soda, nitrate of silver, acetate of lead, salts of copper, iron, and zinc, infusion of galls, &c.
- POTASSA, with acids and acidulous salts, earthy and metallie salts, ammonia and its salts, &c.
- POTASSÆ ACETAS, with mineral acids, sulphates of soda and magnesia, tartaric acid, &c.
- POTASSÆ ARSENITIS LIQUOR, with lime water, acids, chloride of calcium, sulphate of magnesia, alum, sulphate of iron, iodide of iron, nitrate of silver, vegetable astringents.
- POTASSÆ BITARTRAS, with lime water, ammonia, carbonates of potassa and soda, magnesia, sulphate of magnesia, &c.
- POTASSÆ CARBONAS, with acids, metallic salts, lime water, sulphate of magnesia, muriate of ammonia, &c.
- POTASSIÆ CITRAS, with salts of lime, lead, and silver, sulphuric acid.
- POTASSÆ NITRAS, with alum, sulphate of magnesia, metallic sulphates, sulphuric acid, muriatic acid (when heated).
- POTASSÆ SULPHAS, with tartaric acid, acetate of lead, nitric and muriatic acids, chloride of calcium, bichloride of mercury, nitrate of silver, sulphate of magnesia.
- POTASSÆ SULPHURETUM, with acids, most metallie salts.
- POTASSÆ TARTRAS, with all acids, lime water, acetate of lead, nitrate of silver.



- POTASSII IODIDUM, with acetate of lead, bichloride of mercury, tartaric acid, metallic salts, all acids and acidulous salts, except bitartrate of potassa.
- PIMENTA, with alum, ammonia, alkaline carbonates, salts of iron, copper, zinc, and silver, vegetable astringents.
- PIPER NIGRUM, with vegetable astringents.
- PLUMBI ACETAS, with the alkalies and their carbonates, tartaric, citric, and sulphuric acids, tartrate and bitartrate of potassa, alkaline and metallic sulphates, alum, borax, lime water, vegetable astringents, infusion of opium, the soaps, milk.
- PLUMBI IODIDUM, with solution of potassa, sulphuric acid.
- QUASSIA, with nitrate of silver, acetate of lead, &c.
- QUINLE SULPHAS, with tartaric acid, tartrate of potassa, alkalies and their carbonates, lime water, infusion of galls.
- RHEUM, with strong acids, lime water, sulphates of iron and zinc, tartar emetic, bichloride of mercury, vegetable astringents.
- ROSA GALLICA, with sulphates of iron and zinc, gelatin, lime water.
- SALIX, with lime water, sulphate of iron, alkaline carbonates, solution of isinglass.
- SALVIA, with salts of iron.
- SAPO (*and liniments, &c., containing it*), with sulphates of lime and magnesia, chloride of calcium, alum, metallic salts, lime water.
- SARSAPARILLA, with infusion of galls, lime water, acetate of lead.
- SCILLA, with lime water, alkaline carbonates, nitrate of silver, acetate of lead, &c.
- SENNA, with strong acids, carbonates of the alkalies, lime water, tartar emetic.
- SERPENTARIA, with acetate of lead.
- SODÆ CARBONAS, with acids, bitartrate of potassa, metallic and earthy salts, lime water.
- SODÆ PHOSPHAS, with mineral acids, lime, magnesia, &c.
- SODÆ SULPHAS, with salts precipitated by sulphuric acid, carbonates of potassa, acetate of potassa.
- SODÆ ET POTASSÆ TARTRAS, with most acids and acidulous salts, acetate of lead.
- SPIRITUS ÆTHERIS NITRICI, with sulphate of iron, tincture of guaiacum, alkaline and earthy carbonates, especially those with an excess of acid.
- TAMARINDUS, with the salts of potassa, the alkaline carbonates, lime water, tartar emetic.
- TARAXACUM, with corrosive sublimate, sulphate of iron, nitrate of silver, acetate of lead, infusion of galls, &c.
- THEA, with salts of iron, gelatin, lime water, &c.
- TORMENTILLA, with solution of isinglass, salts of iron, alkalies, &c.
- TRAGACANTH, with sulphates of iron and copper, acetate of lead, &c.
- ULMUS, with alcohol, tinctures, if added in quantity.
- UVA URSI, with salts of iron.
- VALERIANA, with salts of iron.
- ZINCI OXIDUM, with potassa, soda, and ammonia.
- ZINCI SULPHAS, with potassa, soda, and ammonia, and their carbonates, the hydrosulphurets, milk, mucilages, &c.

# POSOLOGICAL TABLE

OF THE

## MOST IMPORTANT MEDICINES.

Absinthium, Infusion, f 3j to ij. Extract, grs. x to xx. Tincture, gtt. xx to f 3ij. Oil, gtt. ij to iv.	Ammonia, Alcohol, gtt. v to xx. aromatic, gtt. x to xx.
Acetosella, Extract, ʒj to 3ss.	Citrate, f 3ss to j.
Acidum Arseniosum, gr. $\frac{1}{16}$ to $\frac{1}{8}$ .	Hydrosulphate, gtt. v to vj.
Benzoicum, grs. x to xx.	Muriate, gr. j to v.
Boracicum, grs. v to xx.	Nitrate, ʒj to ij.
Gallicum, grs. ij to x.	Phosphate, f 3ss.
Hydrocyanicum (medicinal), gtt. j to ii.	Succinate, Spirit, gtt. xx to l.
Hydriodicum, gtt. v to lx.	Sulphate, ʒj. to 3ss.
Muriaticum, gtt. v to x. diluted, gtt. xx to xxx.	Ammoniacum, grs. v to xv. mixture, f 3ss to j. and Nit. acid, f 3j to iv.
Nitricum, gtt. v to x. diluted, gtt. xx to xxx.	Amylum, Iodide, 3ss to ij.
Phosphoricum, diluted, gtt. x to f 3j.	Angelica, Tincture, f 3j to ij.
Sulphuricum, gtt. ij to v. diluted, gtt. x to xxx. aromatic, gtt. v to x.	Angustura, Powder, grs. x to ʒj. Infusion, f 3ij.
Tannicum, gr. j to iij.	Tincture, f 3j to ij.
Tartaricum, 3j to ij.	Anthemis, Infusion, f 3j to ij.
Aconitum, Powder, gr. j to ij. Extract, gr. j to ij. alcoholic, gr. $\frac{1}{6}$ to $\frac{1}{2}$ .	Extract, grs. x to xx. Syrup, f 3ss.
Tincture, gtt. v to vj.	Anthracokali, grs. ij to iv.
Æther, Acetic, gtt. x to f 3j.	Antimonium, grs. x to xx. Sulphuret, grs. v to x. precipitated, grs. j to iij.
Hyponitrosus, gtt. x to lx. spirit of, f 3ss to ij.	Kermes mineral, gr. $\frac{1}{2}$ to x. and Lime, grs. j to v.
Hydrocyanic, gtt. ij to vj.	Tartrate and Potassa, gr. $\frac{1}{2}$ to iij.
Muriatic, gtt. xxx to lx.	Wine, gtt. xxx to 3j.
Sulphuric, f 3ss to j. spirit, f 3j to iij. compound, f 3ss to ij.	Antimonial Powder, grs. iij to x.
Allium, Syrup, f 3j.	Apocynum, Decoction, f 3j to ij. Extract, grs. iij to v.
Aloe, Powder, gr. j to v. and Canella, grs. v to xx.	Argentum, Chloride, gr. $\frac{1}{16}$ to gr. ij. and Ammonia, gr. $\frac{1}{14}$ to $\frac{1}{10}$ .
Wine, f 3j. to 3j.	Cyanide, gr. $\frac{1}{2}$ to $\frac{1}{8}$ .
Tincture, f 3j. to 3j. and Myrrh, f 3ss to ij.	Iodide, $\frac{1}{2}$ to j.
Aluminae et Potassae Sulphas, grs. v to x.	Nitrate, gr. $\frac{1}{4}$ to ij.
Ammonia, Water, gtt. v to xx.	Oxide, gr. $\frac{1}{4}$ to ij.
Acetate, f 3ss to j.	Armoracia, Infusion, f 3j to ij. Spirit. comp. f 3j to iv.
Arseniate, gtt. x to xx.	Arnica, Powder, grs. v to x.
Carbonate, grs. v to x. tincture comp., gtt. x to xl.	Extract, grs. v to ʒj. Infusion, f 3ss to j. Tincture, gtt. xxx to l.

- Arsenicum, Iodide, gr.  $\frac{1}{10}$  to  $\frac{1}{5}$ .  
 Donovan's Solution, gtt. xv  
 to f3ss.
- Arum, Powder, grs. x.
- Aselepias Tuberosa, Infusion, f3ijj to iv.
- Asparagus, Extract, ʒj to ʒj.  
 Syrup, ʒj to ij.
- Assafetida, grs. ij to x.  
 Mixture, f3j to ij.  
 Tincture, f3j.  
 ammoniated, gtt. v to f3j.
- Aurum, gr.  $\frac{1}{2}$  to j.  
 Chloride, gr.  $\frac{1}{8}$  to  $\frac{1}{16}$ .  
 and Sodium, gr.  $\frac{1}{8}$  to  
 $\frac{1}{16}$ .  
 Cyanide, gr.  $\frac{1}{8}$  to  $\frac{1}{16}$ .  
 Iodide, gr.  $\frac{1}{8}$  to  $\frac{1}{16}$ .  
 Oxide, gr.  $\frac{1}{16}$  to  $\frac{1}{4}$ .
- Azederach, Decoction, f3ss to j.
- Ballotta Lanata, Decoction, f3ijj to iv.
- Baptisia Tinctoria, Decoction, f3ss.
- Barium, Chloride, grs. ij to ij.  
 Solution, gtt. v.  
 Iodide, gr.  $\frac{1}{2}$ .
- Baryta, Solution, gtt. iv to vj.  
 Acetate, gtt. iv to vj.
- Bebeerina, Sulphate, grs. v to ʒj.
- Belladonna, gr. j to ij.  
 Extract, gr.  $\frac{1}{2}$  to j.  
 alcoholic, gr.  $\frac{1}{2}$  to j.  
 Syrup, ʒj to ij.  
 Tincture, gtt. xv to xxx.
- Benzoin, Tincture, gtt. x to xx.
- Bismuthum, Subnitrate, grs. ij to x.
- Bistort, Infusion, f3j to ij.
- Boletus Laricis, gr. j to iij.
- Brominum, Solution, gtt. v to x.
- Brucia, gr.  $\frac{1}{2}$  to  $\frac{1}{2}$ .  
 Tincture, gtt. v to xx.
- Calamus, Infusion, f3j to ij.
- Calcium, Chloride, Solution, gtt. xx to xxx.  
 Iodide, grs. ij to iij.  
 Sulphuret, grs. v to x.
- Calx. Lime water, f3ss to ij.
- Calcis Carbonas, Powder, grs. x to xx.  
 comp. grs. x to xx.  
 Phosphate, ʒj to ij.
- Calendula, Extract, grs. ij to v.
- Calomel, grs. ij to x.
- Calotropis, Infusion, ʒj to ʒj.  
 Powder, grs. iij to xxx.
- Camphora, grs. iij to x.  
 Water, f3ss to j.  
 Tincture, gtt. v to xx.
- Canella, grs. x to ʒj.
- Cannabis, Extract, grs. x.  
 Tincture, gtt. x to ʒj.
- Cannabis, Resin, gr.  $\frac{1}{2}$  to gr. j.
- Cantharis, gr. ss to j.  
 Tincture, gtt. xx to f3j.
- Capsicum, grs. v to x.  
 Infusion, f3ss.  
 Tincture, f3j to ij.
- Carbo Animalis, grs. x to xx.  
 Ligni, ʒss to j.  
 Mineralis, Anthracokali, grs. ij to iv.
- Cardamomum, Tincture, f3j to ij.
- Carota, Infusion, seeds, f3ij to iv.
- Carum, Spirit, f3j to ij.
- Caryophyllus, Powder, grs. v to x.  
 Infusion, f3j to ij.  
 Tincture, f3j to ij.  
 Oil, gtt. ij to v.
- Cascarilla, Powder, ʒj to ʒss.  
 Infusion, f3j to ij.  
 Extract, grs. x to ʒj.  
 Tincture, f3j.
- Cassia Fistula, ʒij to ʒss.
- Costoreum, grs. v to xx.  
 Tincture, gtt. xxx to f3ij.
- Catalpa, Decoction, f3ij to iij.
- Catechu, grs. x to ʒj.  
 Infusion, comp. f3j to iij.  
 Tincture, gtt. xxx to f3ij.
- Centaurea Benedicta, ʒj to ʒj.  
 Infusion, f3j to ij.
- Cetraria, ʒss to j.
- Cetrarine, grs. ij to v.
- Chelidonium, Extract, grs. v to xv.
- Chenopodium, Juice, f3ss.  
 Oil, gtt. iv to x.
- Chimaphila, Decoction, f3ij to iv.  
 Extract, grs. x to xxx.
- Chiretta, ʒj.
- Chlorinum, Water, f3j to iv.
- Chloroformum, gtt. v to xx.
- Cimicifuga, Decoction, f3j to ij.  
 Tincture, gtt. xx.
- Cinchona, Powder, ʒss to j.  
 Extract, grs. x to xxx.  
 Decoction, f3j.  
 Infusion, f3ij.  
 Tincture, f3j to iv.
- Cinchonia, grs. ij to iv.  
 Sulphate, gr. j to ij.
- Cinnamomum, Powder, grs. x to ʒj.  
 comp. grs. x to xxx.  
 Tincture, f3j to iv.
- Codeia, Syrup, f3j.  
 Muriate and Morphia, gr.  $\frac{1}{2}$  to j.
- Colchicum, Powder, grs. ij to viij.  
 Extract, bulb, gr. j to ij.  
 Wine, root, gtt. x to xx.  
 seeds, f3j.  
 Tincture, seeds, f3ss to ij.



- Colocyntthis, Powder, gr. j to ij.  
Extract, grs. v to x.  
comp. grs. v to xxx.
- Colomba, Powder, grs. x to xxx.  
Infusion, f3j.  
Tincture, f3j to iv.  
Extract, grs. j to v.
- Conium, Powder, grs. iij to v.  
Extract, gr. j to ij.  
alcoholic, gr. j to ij.  
Tincture, gtt. xx to f3j.
- Contrayerva, Powder, 3ss.  
Extract, 3j to ij.  
Tincture, gtt. xxx to xl.
- Copaiba, grs. xx to f3j.  
Tincture, gtt. xxx to f3j.  
Oil, gtt. x to xxx.
- Coptis, Powder, grs. x to xxx.  
Infusion, f3ss to ij.  
Tincture, f3j to iij.
- Cornus, Powder, 3j to 3j.
- Creasotum, gtt. j to ij.
- Crocus, grs. x to xxx.
- Cubeba, Powder, grs. x to 3iij.  
Tincture, f3j to ij.  
Oil, gtt. v to x.
- Cupri Acetas, gr. j.  
Sulphas (emetic), gr. j to iij.
- Cuprum Ammoniatum, gr.  $\frac{1}{4}$  to  $\frac{1}{2}$ .
- Delphinium, Tincture, gtt. x to xx.
- Delphniaia, gr.  $\frac{1}{4}$  to  $\frac{1}{2}$ .
- Digitalis, Powder, gr.  $\frac{1}{2}$  to j.  
Infusion, f3ss.  
Tincture, gtt. x to xx.
- Digitalina, gr.  $\frac{1}{16}$  to  $\frac{1}{8}$ .
- Diosma, Powder, grs. xx to xxx.  
Infusion, f3j to ij.  
Tincture, f3j to iv.  
Extract, fluid, f3j to ij.
- Diospyros, Infusion, f3j.
- Duleamara, Powder, grs. xxx to 3j.  
Decoction, f3j to ij.  
Extract, grs. v to x.
- Elaterium (common), gr. j to ij.  
(genuine), gr.  $\frac{1}{2}$  to  $\frac{1}{4}$ .
- Elaterina, Tincture, gtt. xx to xl.
- Emetina, gr.  $\frac{1}{16}$  to  $\frac{1}{4}$ .  
Syrup, f3j.
- Ergota, Powder, grs. x to xxx.  
Infusion, f3j.  
Wine, f3ij to iij.  
Tincture, gtt. xx to f3j.  
Extract, gr. ij.  
Oil, gtt. xx to l.
- Erigeron Annuum, Infusion, f3ij to iv.  
Canadense, Infusion, f3ij to iv.  
Extract, grs. v to x.
- Eupatorium, Powder, grs. xx to xxx.  
Infusion, f3j.
- Euphorbia Corollata, Powder, grs. xv to xx.  
Ipecacuanha, Powder, grs. x.  
to xv.  
Hypericifolia, Infusion, f3ss  
to ij.  
Lathyrus, Oil, gtt. iv to xii.
- Ferrum (prepared), grs. v to xx.  
Ammoniated, grs. iv to xii.  
Tincture, gtt. xl  
to f3j.
- Ferri, Acetate, gtt. x to xxv.  
Tincture, gtt. xxx to f3j.
- Arseniate, gr.  $\frac{1}{16}$  to  $\frac{1}{16}$ .
- Bromidum, grs. ij to v.
- Carbonate, grs. x to 3ij.  
Saccharine, grs. x to 3ss.
- Carburet, grs. v to xv.
- Chloride, gr. j to ij.  
Tincture, gtt. x to xxx.
- Citrate, grs. iv to viij.  
and Quinia, grs. v. to x.
- Ferrocyanide, grs. iij to v.
- Iodide, grs. ij to iij.  
Solution, gtt. xxx to f3j.  
Syrup, f3j.  
Tincture, gtt. xxx to f3j.
- Laetate, grs. ij to iv.
- Malate, grs. v to 3j.
- Nitrate, gtt. vj to xii.
- Persesquinitrate, gtt. x to xii.
- Oxide, Black, grs. v to xx.  
Red, grs. v to xv.
- Phosphate, grs. v to x.
- Sulphate, grs. j to v.  
dried, gr. j to iij.
- Tartrate, grs. v to x.  
Wine, f3j.  
Ammonio, grs. v.
- Tannate, gr. ij to iij.
- Valerianate, grs. j to ij.
- Filix Mas, 3j to ij.  
Extract, grs. xv to xx.
- Frasera, Powder, grs. xxx to 3j.  
Infusion, f3j to ij.
- Fuligo, Tincture, gtt. xxx to f3j.
- Fulgokali, gr. ij to iij.
- Galbanum, grs. x to xx.
- Galla, Powder, grs. v to xxx.  
Infusion, f3j. to ij.  
Tincture, f3j to iij.  
Syrup, f3ss.
- Gambogia, gr. j to vj.  
Solution, alkaline, gtt. xv.
- Gaultheria, Oil, gtt. ij to x.
- Gentiana, Powder, grs. x to xl.

- Gentiana, Extract, grs. x to ʒj.  
 Infusion, f ʒj.  
 Tincture, comp., f ʒj to ij.
- Geranium, grs. x to xxx.  
 Extract, grs. x to xx.
- Geoffroya, ʒj to ʒss.  
 Decoction, f ʒj to ij.
- Gillenia, grs. xx to xxx.
- Granatum, Decoction (rind), f ʒj.  
 (bark), f ʒij to iv.
- Gratiola, Wine, f ʒj.
- Guaiacum, Resin, grs. x to ʒj.  
 (Wood, decoction,) f ʒj to ij.  
 Oil, gtt. iv to v.  
 Tincture, f ʒj to iij.  
 Ammoniated, f ʒj to iij.
- Hæmatoxylon, Infusion, f ʒss.  
 Decoction, f ʒij to f ʒij.  
 Extract, grs. x to xxx.
- Helleborus, Powder, grs. x to ʒj.  
 Extract, grs. x to xv.  
 Tincture, gtt. xxx to f ʒj.
- Humulus, Infusion, f ʒj to ij.  
 Tincture, f ʒj to iij.
- Hydrargyrum,  
 with Antimony, gr. j to iv.  
 Chalk, grs. v to ʒj.  
 Magnesia, grs. v to ʒj.  
 Blue pill, grs. v to x.  
 Acetate, gr. j.  
 Borate, gr. ij.  
 Bromide, gr. j to v.  
 Bibromide, gr.  $\frac{1}{20}$  to  $\frac{1}{10}$ .  
 Chloride, Corrosive, gr.  $\frac{1}{16}$   
 to  $\frac{1}{4}$ .  
 Mild, gr. ij to x.  
 Cyanuret, gr.  $\frac{1}{16}$  to  $\frac{1}{4}$ .  
 Iodide, gr.  $\frac{1}{4}$  to  $\frac{1}{2}$ .  
 Red, gr.  $\frac{1}{16}$  to  $\frac{1}{8}$ .  
 Oxide, Black, gr. j to ij.  
 Red, gr.  $\frac{1}{2}$  to j.  
 Phosphate, gr.  $\frac{1}{2}$  to j.  
 Sulphate, gr.  $\frac{1}{4}$  to ij.  
 Sulphuret, Black, grs. v to xx.  
 Red, grs. x to xv.  
 Tartrate, gr. j to ij.
- Hippocastanum, Powder, ʒij to iv.
- Hyoseyamus, Powder, grs. ij to v.  
 Extract, gr. j.  
 Tincture, gtt. xx  
 to f ʒss.
- Indigum, Powder, ʒj to ij.
- Iodinum, gr.  $\frac{1}{8}$  to j.  
 Tincture, gtt. x to xx.
- Ipecacuanha, Powder, grs. xv to xxx.  
 comp. grs. v to x.  
 Syrup, f ʒj to ij.
- Ipecacuanha, Wine, f ʒj to f ʒj.
- Jalapa, Powder, grs. x to xxx.  
 comp., ʒss to j.  
 Extract, grs. v to x.  
 alkaline grs. iij to ix.  
 Soap, grs. x to xv.  
 Tincture, f ʒj to ij.
- Juglans Cinerca, Extract, grs. v to xxx.
- Juniperus, Extract, ʒj to iij.  
 Infusion, f ʒij to iv.  
 Oil, gtt. iij to vj.
- Kino, Powder, grs. x to xx.  
 Tincture, f ʒss to ij.
- Krameria, Powder, grs. xx to xxx.  
 Extract, grs. x to xx.  
 Infusion, f ʒi to ij.  
 Syrup, f ʒss.  
 Tincture, f ʒj to ij.
- Lactucarium, grs. iij.  
 Tincture, f ʒss to ij.
- Lauro Cerasus, Water, f ʒss to j.
- Liriodendron, Powder, ʒss to ij.  
 Infusion, f ʒj to ij.  
 Tincture, f ʒj to ij.
- Lobelia, Powder, grs. v to x.  
 Tincture, f ʒss to iv.
- Lupulina, grs. v to x.  
 Tincture, f ʒi to ij.
- Macis, grs. x to ʒj.  
 Tincture, gtt. xxx to xl.
- Magnesia, ʒj.  
 Carbonate, ʒj to ʒj.  
 Citrate, Solution, ʒj.  
 Sulphate, ʒj.  
 Sulphuret, Syrup, f ʒss.  
 Phosphate, grs. x to xx.
- Manolia, Powder, ʒj to ij.
- Manganesii, Carbonate, ʒi to ʒi.  
 Muriate, grs. iv to x.  
 Oxide, grs. ij to iv.  
 Sulphate, ʒj to ij.
- Manna, ʒj to ʒij.
- Mannite, ʒij to ʒij.
- Marrubium, Extract, ʒi to ʒss.
- Matico, Infusion, f ʒj.  
 Tincture, gtt. xxx to f ʒj.  
 Syrup, f ʒj to ij.
- Mentha Piperita, Oil, gtt. i to iij.  
 Essence, gtt. x to xx.
- Mentha Viridis, Infusion, f ʒj to ij.
- Menyanthes, Powder, grs. xx to xxx.  
 Infusion, f ʒj to ij.  
 Extract, grs. x to xv.
- Mezereum, Decoction, f ʒj to iv.
- Monarda, Oil, gtt. j to iij.

- Monesia, grs. ij to x.  
     Syrup, f3ss.  
 Morphia, gr.  $\frac{1}{6}$  to  $\frac{1}{4}$ .  
     Acetate, gr.  $\frac{1}{8}$  to  $\frac{1}{4}$ .  
     Bimeconate, gr.  $\frac{1}{4}$ .  
     Citrate, gtt. v to x.  
     Muriate, gr.  $\frac{1}{8}$  to  $\frac{1}{4}$ .  
     Sulphate, gr.  $\frac{1}{6}$  to  $\frac{1}{4}$ .  
 Moschus, grs. v to x.  
     Tincture, gtt. xxx to f3j.  
 Mucuna, Electuary, 3i to ij.  
 Myroxylon, f3ss.  
     Syrup, f3j to ij.  
 Myrrha, grs. x to xxx.  
  
 Narcotina, grs. iij.  
     Muriate, grs. ij to iv.  
 Nux vomica, Powder, grs. iij to v.  
     Extract, gr.  $\frac{1}{2}$  to ij.  
     Tincture, gtt. v to xx.  
  
 Oleum Animale Empyreumatica, gtt. v to x.  
     Cajuputi, gtt. ij to v.  
     Morrhuae, f3ss to f3ij.  
     Olivæ, f3j.  
     Ricini, f3ss to j.  
     Terebinthinæ, gtt. v to f3i.  
     Tiglii, gtt. i to ij.  
 Opium, gr. j.  
     Vinegar, Black drop, gtt. vii to x.  
     Lancaster " " gtt. vj to x.  
     Houlton's " " gtt. xx.  
     Rousseau's " " gtt. iv.  
     Porter's " " gtt. v to xx.  
     Tincture, gtt. xxv.  
         acetated, gtt. xx.  
     Wine, gtt. xxv.  
     Tincture, Smith's, gtt. iij to v.  
         ammoniated, f3i to ij.  
         Camphorated, f3j to iij.  
         Swediaur's, gtt. v.  
     Elixir, gtt. v to xx.  
 Opoponax, grs. x to xx.  
  
 Papaver, Syrup, f3ij to f3j.  
 Pareira, Powder, grs. xxx to 3j.  
     Infusion, f3j to ij.  
     Decoction, f3j to ij.  
     Extract, grs. x to 3ss.  
     Tincture, gtt. l to lx.  
  
 Paullinia, grs. x to xx.  
 Petroleum, f3ss to j.  
 Petroselinum, Infusion, Oss.  
 Phloridzina, grs. v to xv.  
 Phosphorus, gr.  $\frac{1}{8}$ .  
 Phytolacca, Powder, grs. x to xxx.  
 Piper Nigrum, Confection, 3j to ij.  
 Piperinum, gr. j to ij.  
 Piscidia Erythrina, Tincture, f3j.
- Pix liquida, 3ss to j.  
 Platini, Bichloridum, gr. j to ij.  
 Plumbi, Acetate, gr. j to iv.  
     Iodide, gr.  $\frac{1}{2}$  to j.  
 Podophyllum, Powder, grs. x to xx.  
     Extract, grs. v to xv.  
 Podophyllin, grs. v to vj.  
 Potassi, Bromide, grs. ij to x.  
     Chloride, 3j to ij.  
     Cyanuret, grs.  $\frac{1}{8}$  to  $\frac{1}{4}$ .  
     Iodide, gr. j to x.  
     Iodo-hydrargyrate, gtt. ij to v.  
     Silica, Solution, f3iij.  
     Sulphate, 3iv to v.  
     Bisulphate, 3j to ij.  
         with Sulphur, 3ss to j.  
     Tartrate, 3j to 3j.  
     Bitartrate, 3j to 3ss.  
         and Ammonia, 3j.  
 Prinos, Powder, grs. xxx to 3j.  
     Decoction, f3ij.  
 Prunus Virginiana, Powder, grs. xxx to 3ij.  
     Infusion, f3ij to iij.  
     Syrup, f3j to f3j.
- Quassia, Infusion, f3j.  
     Extract, grs. ij to v.  
     Tincture, f3j to ij.  
 Quercus, Powder, grs. xxx to 3j.  
     Extract, grs. x to xl.  
     Decoction, f3ij to iij.  
 Quinia, gr. j to ij.  
     Amorphous, gr. j to iv.  
     Acetate, gr. j to ij.  
     Arseniate, gr.  $\frac{1}{8}$ .  
     Citrate, gr. j to ij.  
     Ferrocyanate, gr. j to ij.  
     Chloride and Mercury, gr.  $\frac{1}{2}$ .  
     Kinate, gr. j to ij.  
     Lactate, gr. j to ij.  
     Muriate, gr.  $\frac{1}{2}$  to j.  
     Sulphate, gr. j to ij.  
     Sulpho-tartrate, f3ss to j.  
     Valerianate, gr.  $\frac{1}{2}$  to j.
- Rheum, Powder, grs. x to xxx.  
     Roasted, grs. v to x.  
     Infusion, f3j to ij.  
     Extract, grs. x to xx.  
         Fluid, gtt. xv to f3ss.  
     Syrup, f3j to ij.  
         Aromatic, f3j to ij.  
     Tincture, f3j to ij.  
         and Senna, f3ss to ij.  
     Wine, f3j to iv.
- Rubia, Powder, 3ss.  
     Decoction, f3iij.  
 Rubus, Decoction, f3j to ij.  
 Ruta, Powder, grs. x to xx.



- Sabadilla, Powder, grs. ij to v.  
 Extract, gr.  $\frac{1}{4}$ .
- Sabbatia, Infusion, f3ij to iv.
- Sabina, Powder, grs. v to x.  
 Oil, gtt. ij to v.
- Salicina, grs. iv to vj.
- Salvia, Infusion, f3ij to iv.
- Sanguinaria, Powder, grs. x to xx.  
 Tincture, f3j to iv.
- Sarsaparilla, Powder, 3ss to j.  
 Decoction, f3iv to vj.  
 Extract, grs. x to xx.  
 Fluid, f3j.  
 Syrup, f3ss to j.  
 Compound, f3ss to j.
- Sassafras, Infusion, f3j to ij.  
 Oil, gtt. ij to v.
- Scammonium, Powder, grs. v to x.  
 Confection, grs. xx to xxx.  
 Resin, grs. v to x.
- Scilla, Powder, grs. v to x.  
 Syrup, f3j.  
 Compound, gtt. x to f3j.  
 Tincture, gtt. xx to xl.  
 Extract, gr. j to iij.  
 Vinegar, f3ss to j.  
 Oxy-mel, f3j to ij.
- Scoparius, Infusion, f3ij to iv.  
 Extract, 3j to 3j.
- Senega, Powder, grs. x to xx.  
 Infusion, f3j to ij.  
 Decoction, f3ss.  
 Syrup, f3j to ij.
- Senna, Powder, 3ss to ij.  
 Confection, 3j.  
 Infusion, f3iv.  
 Syrup, f3j to ij.  
 Extract, fluid, f3ss.
- Serpentaria, Powder, grs. x to xx.  
 Infusion, f3j to ij.  
 Tincture, f3j to ij.
- Simaruba, Infusion, f3ij.
- Sodii Chloridum, Powder, grs. x to 3ss.  
 Comp. 3ij to iij.
- Soda, Acetate, 3j to 3iv.  
 Arseniate, gr.  $\frac{1}{16}$  to  $\frac{1}{8}$ .  
 Borate, grs. xx to xxx.  
 Carbonate, grs. x to xx.  
 Solution, f3j to ij.  
 Hydrosulphate, grs. x to 3j.  
 Phosphate, 3iv to 3j.  
 Sulphate, 3j.  
 Tartrate, 3ss to j.
- Spigelia, Powder, 3j to ij.  
 Infusion, 3iv to 3j.  
 Comp. 3j to ij.  
 Extract, Fluid, 3j to 3ss.
- Spiraea, Decoction, f3j to ij.
- Spiraea, Extract, grs. v to 3j.
- Spongia, Burnt, 3j to ij.
- Stannum, Powder, 3ss.  
 Chloride, gr. ij.  
 Sulphuret, grs. x to xx.  
 Oxide, grs. v to vj.
- Stramonium, Powder, gr. ij to iij.  
 Seeds, gr. j.  
 Extract (seeds), gr.  $\frac{1}{4}$  to  $\frac{1}{2}$ .  
 (leaves), gr. j.  
 Tincture (seeds), gtt. xx to xxx.
- Styrax, grs. x to xx.
- Strychnia, gr.  $\frac{1}{16}$  to  $\frac{1}{10}$ .  
 Acetate, Solution, gtt. v.  
 Iodate, gr.  $\frac{1}{4}$ .
- Succinum, Oil, gtt. v to xv.  
 Tincture, gtt. xl to lx.
- Sulphur, Prepared, 3ss to ij.  
 Electuary, 3j to ij.
- Sulphuris Carburetum, gtt. ij to iij.
- Tabacum, Wine, m, x to xx.  
 Tincture, m, x to xx.
- Tanaecetum, Extract, grs. v to 3j.
- Taraxacum, Decoction, 3j to iij.  
 Extract, 3j to 3j.  
 Fluid, f3j.
- Terebinthina, grs. ij to v.
- Tolutanum, grs. x to xxx.  
 Tincture, f3j to ij.  
 Syrup, f3j to f3ss.
- Tormentilla, Powder, grs. xxx to 3j.  
 Decoction, f3j to ij.
- Toxicodendron, Powder, gr.  $\frac{1}{2}$  to j.  
 Extract, gr. j.  
 Tincture, gtt. v.
- Tussilago, Decoction, f3ij to iv.  
 Syrup, f3j to f3ss.
- Ulmus Campestris, Decoction, f3iv to vj.
- Ulmus Fulva, Decoction, f3iv to vj.
- Uva Ursi, Powder, 3j to 3j.  
 Decoction, f3j to ij.  
 Extract, grs. v to xxx.
- Valeriana, Powder, 3ss to j.  
 Electuary, 3j to 3ij.  
 Infusion, f3ij.  
 Tincture, f3j to iv.  
 Ammon. f3j to ij.  
 Wine, f3j to iv.  
 Oil, gtt. ij to v.  
 Extract, grs. ij to x.  
 Fluid, f3j to ij.
- Vanilla, Powder, grs. v to x.  
 Tincture, gtt. xxx to xl.
- Veratria, grs.  $\frac{1}{2}$  to  $\frac{1}{4}$ .  
 Tincture, gtt. v to x.

Veratrum Album, Powder, gr. j to ij.	Zinci Oxidum, grs. ij to x.
Wine, ℥x.	Chloridum, Solution, gtt. v.
Tincture, ℥x.	Tincture, gtt. v.
Veratrum Viride, Powder, gr. j.	Cyanuretum, gr. $\frac{1}{12}$ to $\frac{1}{4}$ .
Tincture, fʒss to j.	Ferrocyanuretum, gr. j.
Wine, fʒss to j.	Solution, fʒss.
Extract, grs. $\frac{1}{4}$ to $\frac{1}{2}$ .	Sulphas, gr. j to xxx.
Viola Odorata, Syrup, fʒj to ij.	Solution, fʒss.
Wintera, Powder, ʒss to j.	Valerianas, gr. j to ij.
	Zingiber, Powder, gr. x to ʒj.
	Tincture, fʒj to ij.

# TABLE OF PHARMACEUTICAL NAMES,

WHICH

DIFFER IN THE UNITED STATES, AND THE LONDON, EDINBURGH,  
AND DUBLIN PHARMACOPŒIAS.

UNITED STATES.	LONDON.	EDINBURGH.	DUBLIN.
Absinthium,	idem,	idem,	Artemisia absinthium.
Acacia,	idem,	Gummi acaciæ,	A. Arabica et A. vera.
Acetum,	idem,	Acetum gallicum,	Acetum vini.
Acetum destillatum,	idem,	idem,	Acetum distillatum.
Acidum arseniosum,	idem,	Arsenicum album,	Arsenici oxydum album.
Acidum hydrocyanicum,	A. hydrocyanicum dilutum,	A. hydrocyanicum,	Acidum Prussicum.
Acidum muriaticum,	A. hydrochloricum,	A. muriatum et m. purum,	A. muriaticum.
Acidum dilutum,	A. hydrochloricum dilutum,	A. muriaticum dilutum,	idem.
Aconitum,	Aconiti folia et radix,	Aconitum,	Aconitum paniculatum. Folia.
Adeps,	idem,	Axungia,	Adeps suillus præparatus.
Alcohol,	Spiritus rectificatus,	idem,	idem.
Alcohol dilutum,	Spiritus tenuior,	idem,	idem.
Allium,	idem,	idem,	Allium sativum.
Aloe,	idem,	A. Barbadosis, A. Indica, A. socotrina,	A. hepatica, A. socotorina.
Althæa,	Althææ radix et folia,	idem,	Althæa officinalis.
Alumen exsiccatum,	idem,	idem,	Alumen siccatum.
Ammoniæ murias,	Ammoniæ hydrochloras,	Ammoniæ murias,	idem.
Ammoniæ carbonas,	Ammoniæ sesquicarbonas,	Ammoniæ carbonas,	idem.
Ammoniacum,	idem,	idem,	Ammoniacum gummi.
Amygdala amara,	idem,	idem,	Amygdalæ amaræ.
Amygdala dulcis,	idem,	idem,	Amygdalæ dulces.
Angustura,	Cusparia,	idem,	Angustura.
Anthemis,	idem,	idem,	Chamæmelum.



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Antimonii et potassæ tartras,	Antimonii potassio- tartras,	Antimonium tartari- zatum,	Antimonii et potassæ tartras <i>sive</i> tarta- rum emetieum.
Antimonii sulphuret- um præcipitatum,	Antimonii oxysul- phuretum,	Antimonii sulph. aureum,	Sulph. antimoniatum fuseum.
Antimonii sulphuret- um,	Antimonii sesqui- sulphuretum,	Antimonii sulphu- retum,	idem.
Aqua destillata,	idem,	idem,	Aqua distillata.
Aqua camphoræ,	Mistura camphoræ, Aqua menthæ pule- gii,	idem, Aqua pulegii,	idem. idem.
Argenticyanuretum,	Argentii cyanidum,		
Argentii nitras,	idem,	idem,	Argentii nitras fusum.
Arnica,	Asarum,		Arnica montana. Asarum Europæum.
Barii ehloridum,	idem,	Barytæ murias,	idem.
Belladonna,	idem,	idem,	Atropa belladonna.
Benzoinum,	idem,	idem,	Styrax benzoin. Re- sina.
Bismuthi subnitras,	Bismuthi trisnitras,	Bismuthum album,	Bismuthi subnitras.
Calamus,	Acorus,	Calamus aromaticus,	
Caleii ehloridum,	idem,	Caleis murias,	idem.
Canella,	idem,	idem,	Canella alba. Cortex.
Cantharis,	idem,	idem,	Cantharis vesicatoria.
Capsicum,	idem,	idem,	Capsicum annum.
Cardamomum,	idem,	idem,	Amomum eardamo- mum.
Carota,	Dauci fructus,		Daucus carota var. sylvestris.
Carum,	Carui,	idem,	Carum carui.
Cassia fistula,	Cassia,	Cassiae pulpa,	Cassia fistula.
Cassiae fistulae pulpa,	Cassia, Cataplasma fermenti,	Cassiae pulpa,	Cassia fistula, Cataplasma fermenti cerevisiae.
Ceratum cantharidis,	Emplastrum can- tharidis,	idem,	idem.
Ceratum cetacei,	idem,	Ceratum simplex,	Unguentum cetacei.
Ceratum plumbi sub- acetatis,	Ceratum plumbi compositum,		
Ceratum resinæ,	idem,	Unguentum resino- sum,	Ung. resinæ albæ.
Ceratum sabinæ,	idem,	idem,	Unguentum sabinæ.
Ceratum simplex,	Ceratum,		
Ceratum zinei carbo- natis,	Ceratum calaminæ,	idem,	Unguentum calami- næ.
Cetraria,	idem,	idem,	Lichen Islandicus.
Chimaphila,	idem,	Pyrola,	Pyrola umbellata.
Cinchona flava,	Cinchona cordifolia,	Cinchona flava,	Cinchona cordifolia.
Cinchona pallida,	Cinchona lanceifolia,	Cinchona cinerea, } Cinchona coronæ, }	Cinchona lanceifolia.
Cinchona rubra,	Cinchona oblongifolia,	Cinchona rubra,	Cinchona oblongifolia.
Cinnamomum,	idem,	idem et Cassiæ cor- tex,	idem et Cassia.
Coccus,	Cocci,	idem,	Coccus cacti.
Colchici radix,	Colchici cormus,	idem,	Colechicum autum- nale. Bulbus.

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Colchici semen,	Colchici semina,	idem,	Colehicum autum- nale. Semina.
Colocynthis,	idem,	idem,	Cucumis colocynthis.
Colomba,	Calumba,	idem,	Colomba.
	Confectio amygdalæ,	Conserva amygdala- rum,	Confectio amygdala- rum.
Confectio aromatica,	idem,	Electuarium aroma- ticum,	Confectio aromatica.
Confectio aurantii corticis,	Confectio aurantii,	Conserva aurantii,	
	Confectio cassiæ,		Electuarium cassiæ.
Confectio opii,	idem,	Electuarium opii,	Confectio opii.
	Confectio piperis ni- gri,	Electuarium piperis,	Confectio piperis ni- gri.
Confectio rosæ,	Confectio rosæ gal- licæ,	Conserva rosæ,	idem.
	Confectio rosæ ca- ninæ,	Conserva rosæ fruc- tus,	
	Confectio rutæ,		Conserva rutæ.
	Confectio scammonii,		Electuarium scammo- nii.
Confectio sennæ,	idem,	Electuarium sennæ,	idem.
Conii folia,	idem,	Conium,	Conium maculatum.
Conii semen,	Conii fructus,		
Contraÿerva,	Contraÿerva,		
Copaiba,	idem,	idem,	Copaifera officinalis.
Coriandrum,	idem,	idem,	Coriandrum sativum.
	Cornu,	idem,	Cornua cervina.
Creasotum,	Creasoton,	Creasotum,	
Creta,	idem,	idem,	Calcis carbonas. Creta alba.
Crocus,	idem,	idem,	Crocus sativus.
Cubeba,	Piper cubeba,	Cubebæ,	Cubeba.
Cuprum ammoniat- um,	Cupri ammonio sul- phas,	Cuprum ammoniat- um,	idem.
Cupri subacetas,	Ærugo,	idem,	Cupri subacetas.
Curcuma,	idem,	idem,	Curcuma longa.
	Cuminum,	Cuminum,	
	Decoetum aloës com- positum,	Decoetum aloës,	Decoetum aloës com- positum.
Decoetum cetrariæ,	idem,		Decoetum lichenis is- landici.
Decoetum chimaphi- læ,	idem,		Decoetum pyrolæ.
Decoetum cinchonæ,	Decoetum cinchonæ cordifoliæ,	Decoetum cinchonæ,	idem.
	Decoetum C. lanci- foliæ,		
	Decoetum C. oblon- gifoliæ,		
	Decoetum hordei compositum,	Mistura hordei,	Decoetum hordei com- positum.
Decoetum quercûs albæ,	Decoetum quercûs,	idem,	idem.
	Decoetum sarzæ,	idem,	Decoetum sarsaparil- læ.

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Decoctum sarsaparillæ compositum,	Decoctum sarzæ compositum, Decoctum scoparii compositum,	idem, Decoctum scoparii,	Decoctum sarsaparillæ compositum.
Digitalis,	Digitalis folia, D. semina,	Digitalis,	Digitalis purpurea.
Diosma,	idem,	Bucku,	Diosma crenata.
Elaterium,	Extractum elaterii, Emplastrum ammoniaci cum hydragyro, Emplastrum ceræ,	Elaterium, Emplastrum ammoniaci et hydragyri, Emplastrum simplex, Emplastrum ferri,	Extractum elaterii. Emplastrum ammoniaci cum hydragyro.
Emplastrum ferri, Emplastrum galbani compositum, Emplastrum picis cum cantharide, Emplastrum plumbi,	Emplastrum galbani, idem,	Emplastrum lithargyri, Emplastrum resinosum, idem,	Emplastrum thuris. Emplastrum calefaciens. idem.
Emplastrum resinæ,	idem, Euphorbium,	idem,	Emplastrum lithargyri cum resinæ. Euphorbia canariensis.
Extractum aconiti,	idem, Extractum aloës purificatum,	idem, Extractum anthemidis,	Succus spissatus aconiti. Extractum aloës hepaticæ. Extractum chamæmeli.
Extractum belladonnæ,	idem,	idem,	Succus spissatus belladonnæ.
Extractum cinchonæ,	Extractum cinchonæ cordifoliæ, Extractum C. lancifoliæ, Extractum C. oblongifoliæ, Extractum colocynthidis,	Extractum cinchonæ, idem,	idem. Extractum colocynthidis simplex.
Extractum conii,	idem,	idem,	Succus spissatus conii.
Extractum hæmatoxyli,	idem,	idem,	Extractum hæmatoxyli campechiani.
Extractum hyoscyami,	idem, Extractum lupuli,	idem, idem,	Succus spissatus hyoscyami. Extractum humuli lupuli.
Extractum sarsaparillæ,	Extractum opii purificatum, Extractum sarzæ,	Extractum opii, Extractum sarzæ fluidum,	Extractum opii aquosum. Extractum sarsaparillæ.
Ferri filum,		Ferri filum,	Ferrum fila.



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Ferri ramenta,	Ferrum. Ramenta,	Ferri limatura,	Ferrum. Scobs.
Ferri et potassæ tar- tras,	Ferri potassio-tar- tras,	Ferrum tartarizat- um,	Ferri tartarum.
Ferri ferrocyanuret- um,	Ferri pereyanidum,		Ferri cyanuretum.
Ferri oxidum hy- dratum,		Ferrugo,	
		Ferri oxidum ni- grum,	Ferri oxydum ni- grum.
Ferri subcarbonas,	Ferri sesquioxylum,	Ferri oxidum ru- brum,	Ferri carbonas.
Ferrum ammoniat- um,	Ferri ammonio-chlo- ridum,		
Ficus,	Fici,	idem,	Ficus carica.
Filix mas,	Aspidium,	Filix,	Filix mas.
Galla,	Gallæ,	idem,	Gallæ.
Gambogia,	Cambogia,	Cambogia,	Gambogia.
Gentiana,	idem,	idem,	Gentiana lutea.
Glycyrrhiza,	idem,	Glycyrrhizæ radix,	Glycyrrhiza glabra.
Granati fructus cor- tex,	Granatum,		Punica granatum.
Granati radices cor- tex,		Granati radix,	Punica granatum.
Guaiaci lignum,	idem,	idem,	Guaiacum officinale.
Guaiaci resina,	idem,	Guaiacum,	Guaiacum officinale.
Hæmatoxylon,	Hæmatoxylum,	Hæmatoxylon,	Hæmatoxylum cam- pechianum.
Helleborus,	idem,	idem,	Helleborus niger.
Hordeum,	idem,	idem,	Hordeum distichon.
Humulus,	Lupulus,	idem,	Humulus lupulus.
Hydrargyri chlori- dum corrosivum,	Hydrargyri bichlori- dum,	Sublimatus corro- sivus,	Hydrargyri murias corrosivum.
Hydrargyri chlori- dum mite,	Hydrargyri chlori- dum,	Calomelas,	Calomelas sublimat- um.
Hydrargyri cyanu- retum,	Hydrargyri bician- idum,		Hydrargyri cyanure- tum.
Hydrargyri iodidum rubrum,	Hydrargyri biniodi- dum,	idem,	
Hydrargyri oxidum nigrum,	Hydrargyri oxy- dum,		Hydrargyri oxydum nigrum.
Hydrargyri oxidum rubrum,	Hydrargyri nitrico- oxydum,	Hydrargyri oxidum rubrum,	Hydrargyri oxydum nitricum.
Hydrargyri sulphas flavus,			Hydrargyri oxydum sulphuricum.
Hydrargyri sulphu- retum nigrum,	Hydrargyri sulphu- retum cum sul- phure,		Hydrargyri sulphu- retum nigrum.
Hydrargyri sulphu- retum rubrum,	Hydrargyri bisul- phuretum,	Cinnabaris,	Hydrargyri sulphu- retum rubrum.
Hydrargyrum ammo- niatum,	Hydrargyri ammo- nio-chloridum,	Hydrargyri precipi- tatum album,	Hydrargyri submu- rias ammoniatum.
Hyoseyami folia,	idem,	Hyoseyamus,	Hyoseyamus niger.
Hyoseyami semen,	Hyoseyami semina,		
Infusum angusturæ,	Infusum cuspariæ,	idem,	Infusum angusturæ.

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Infusum anthemidis,	idem,	idem,	Infusum chamæmeli.
Infusum armoraciæ,	Infusum armoraciæ compositum,		Infusum armoraciæ compositum.
	Infusum aurantii compositum,	Infusum aurantii,	Infusum aurantii com- positum.
Infusum caryophyl- li,	idem,	idem,	Infusum caryophyllo- rum.
Infusum catechu compositum,	idem,	Infusum catechu,	Infusum catechu com- positum.
Infusum colom bæ,	Infusum calumbæ,	idem,	Infusum colom bæ.
Infusum diosmæ,	idem,	Infusum bucku,	Infusum buchû.
Infusum gentianæ compositum,	idem,	Infusum gentianæ,	Infusum gentianæ compositum.
Infusum humuli,	Infusum lupuli,		
Infusum lini,	Infusum lini com- positum,	Infusum lini,	Infusum lini composi- tum.
Infusum rosæ com- positum,	idem,	Infusum rosæ,	Infusum rosæ acid- um.
Infusum sarsaparil- læ,			Infusum sarsaparillæ compositum.
Infusum sennæ,	Infusum sennæ com- positum,	Infusum sennæ,	Infusum sennæ com- positum.
		Infusum sennæ com- positum,	Infusum sennæ cum tamarindis.
Infusum tabaci,	Enema tabaci,		Infusum tabaci.
Inula,	idem,		Inula helenium.
Iodinum,	Iodinum,	Iodineum,	Iodinium.
Ipecacuanha,	idem,	idem,	Cephaëlis ipecacuan- ha.
Juniperus,	Juniperi cacumina,	idem,	Juniperus communis. Cacumina.
	Juniperi fructus,	idem,	Juniperus communis. Baccæ.
Krameria,	idem,	idem,	Rhatania.
	Lacmus,	idem,	Litmus.
	Lactuca,		Lactuca sativa.
	Lauri baccæ, Lauri folia,		Laurus nobilis.
		Lauro cerasus,	Prunus lauro-cerasus.
Lavandula,	idem,	idem,	Lavandula spica.
Limon,	Limones,	idem,	idem.
Limonis cortex,	Limonum cortex,	idem,	Citrus medica.
Linimentum cam- phoræ,	idem,	idem,	Oleum camphoratum.
	Linimentum opii,	idem,	Linimentum saponis cum opio <i>vel</i> lini- mentum anodyn- um.
Linimentum terebin- thinæ,	idem,	Linimentum terebin- thinatum,	Linimentum terebin- thinæ.
Linum,	Lini semina,	Lini farina,	Linum usitatissimum.
Liquor ammoniæ,	idem,	Ammoniæ aqua,	Ammoniæ causticæ aqua.

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Liquor ammoniæ acetatis,	idem,	Ammoniæ acetatis aqua,	idem.
Liquor ammoniæ fortior,	Ammoniæ liquor fortior,	Ammoniæ aqua fortior,	
	Liquor ammoniæ sesquicarbonatis,	Ammoniæ carbonatis aqua,	idem.
Liquor barii chloridi,	idem,	Solutio barytæ muriatis,	Barytæ muriatis aqua.
Liquor calcii chloridi,	idem,	Calcis muriatis solutio,	Calcis muriatis aqua.
Liquor calcis,	idem,	Aqua calcis,	idem.
	Liquor cupri ammonio-sulphatis,	Cupri ammoniati solutio,	Cupri ammoniati aqua.
Liquor ferri iodidi,		Ferri iodidi syrupus,	
Liquor iodini compositus,	Liquor potassii iodidi compositus,	Iodinei liquor compositus,	
Liquor plumbi subacetatis,	Liquor plumbi diacetatis,	Plumbi diacetatis solutio,	Plumbi subacetatis liquor.
Liquor plumbi subacetatis dilutus,	Liquor plumbi diacetatis dilutus,		Plumbi subacetatis liquor compositus.
Liquor potassæ,	idem,	Potassæ aqua,	Potassæ causticæ aqua.
Liquor potassæ arsenitis,	idem,	Liquor arsenicalis,	idem.
Liquor potassæ carbonatis,	idem,		Potassæ carbonatis aqua.
	Liquor potassæ effervescens,	Potassæ aqua effervescens,	
	Liquor sodæ effervescens,	Sodæ aqua effervescens,	
Liquor sodæ chlorinatae,	idem,		
	Manganesii binoxidum,	Manganesii oxidum,	Manganesii oxydum.
Marmor,	idem,	idem,	Calcis carbonas, Marmor album.
Marrubium,	idem,		Marrubium vulgare.
Melissa,		Melissa,	Melissa officinalis.
	Mentha pulegium,	Pulegium,	Mentha pulegium.
	Menyanthes,	idem,	Menyanthes trifoliata.
Mezereum,	idem,	Mezereon,	idem.
Mistura amygdalæ,	idem,	Mistura acaciæ,	Emulsio Arabica.
		Mistura amygdalarum,	idem.
Mistura assafoetidæ,	idem,		Mistura assafoetidæ.
	Mora,		Morus nigra.
Morphiæ murias,	Morphiæ hydrochloras,	Morphiæ murias,	
Mucilago acaciæ,	Mistura acaciæ,	Mucilago,	Mucilago gummi Arabici.
	Decoctum amyli,	Mucilago amyli,	idem.
Mucilago tragacanthæ,		idem,	Mucilago gummi tragacanthæ.
Mucuna,	Mucuna pruriens,	idem,	Dolichos pruriens.
Myristica,	idem,	idem,	Nux moschata.



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Myroxylon,	Balsamum Peruvianum,	idem,	Myroxylum Peruvianum.
Oleum amygdalæ,	Amygdalæ oleum,		Oleum amygdalarum.
Oleum bergamii,	Bergamii oleum,	Bergamottæ oleum,	
Oleum cajuputi,	Cajuputi,	Cajuputi oleum,	Melaleuca leucadendron.
Oleum caryophylli,	Caryophylli oleum,	idem,	Eugenia caryophyllata.
Oleum cinnamomi,	Cinnamomi oleum,	idem et Cassiæ oleum,	Laurus cinnamomum.
Oleum limonis,	Limonum oleum,	idem,	Citrus medica.
Oleum lini,	Lini oleum,	idem,	Oleum lini.
Oleum myristicæ,	Myristicæ oleum,	idem,	Myristica moschata.
Oleum olivæ,	Olivæ oleum,	idem,	Olea Europæum.
Oleum ricini,	Ricini oleum,	idem,	Ricinus communis.
Oleum rosæ,		Rosæ oleum,	
Oleum terebinthinæ,	Terebinthinæ oleum,	idem,	Oleum terebinthinæ.
Oleum tigllii,	Tigllii oleum,	Crotonis oleum,	Croton tiglium.
Oleum cari,	Oleum carui,	idem,	idem.
Oleum fœniculi,		idem,	Oleum fœniculi dulcis.
Oleum menthæ piperitæ,	idem,	idem,	Oleum menthæ piperitidis.
	Oleum menthæ pulegiæ,	Oleum pulegiæ,	idem.
Oleum rosmarini,	idem,	idem,	Oleum rosmarini.
Oleum succini rectificatum,	Oleum succini,		Oleum succini rectificatum.
	Oleum terebinthinæ purificatum,	idem,	Oleum terebinthinæ rectificatum.
Origanum,	idem,	idem,	Origanum vulgare.
Os,			Ossa.
Papaver,	idem,	idem,	Papaver somniferum.
	Petroleum,	idem,	idem et Bitumen petroleum.
Pilulæ aloës et myrrhæ,	Pilulæ aloës cum myrrhâ,	Pilulæ aloës et myrrhæ,	Pilulæ aloës cum myrrhâ.
	Pilulæ hydrargyri chloridi compositæ,	Pilulæ calomelanos compositæ,	idem.
		Pilulæ colocynthidis,	Pilulæ colocynthidis compositæ.
Pilulæ galbani compositæ,	idem,	Pilulæ assafœtidæ,	Pilulæ galbani compositæ.
	Pilulæ cambogiæ compositæ,	Pilulæ cambogiæ,	Pilulæ gambogiæ compositæ.
Pilulæ opii,		Pilulæ opii sive thebaicæ,	
Pilulæ saponis compositæ,	idem,		Pilulæ saponis cum opio.
Pilulæ scillæ compositæ,	idem,	Pilulæ scillæ,	Pilulæ scillæ compositæ.
	Pilulæ styracis compositæ,	Pilulæ styracis,	Pilulæ è styrace.
Piper,	Piper nigrum,	idem,	idem.
Pix abietis,	Pix abietina,	Pix Burgundica,	idem.

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Plumbi carbonas,	Pix nigra,	Pix arida,	idem et Cerussa.
Plumbi oxidum semivitreum,	idem, Plumbi oxydum,	idem, Lithargyrum,	Plumbi oxydum semivitreum <i>sive</i> lithargyrum.
Potassæ carbonas impurus,	Potassæ carbonas impura,		Lixivus cinis.
Potassæ carbonas,	idem,	idem,	Potassæ carbonas è lixivo cinere.
Potassæ carbonas purus,		Potassæ carbonas purum,	Potassæ carbonas è tartari crystallis.
Potassii ferrocyanuretum,	Potassii ferrocyanidum,	idem,	
Potassa,	Potassæ hydras, Potassa cum calce,	Potassa, idem,	Potassa caustica. Potassa caustica cum calce.
Potassii iodidum,	idem,	idem,	Potassæ hydriodas.
Potassii sulphuretum,	idem,	idem,	Potassæ sulphuretum.
Prunum,	Pruna,		Prunus domestica.
Pulvis aloës et cancellæ,			Pulvis aloës cum cannella.
Pulvis aromaticus,	Pulvis cinnamomi compositus, Pulvis cretæ compos. cum opio,	Pulvis aromaticus, Pulvis cretæ opiatus,	idem. Pulvis cretæ compos. cum opio.
Pulvis ipecacuanhæ et opii,	Pulvis ipecacuanhæ compositus,	idem,	idem.
Pulvis stanni,		Stanni pulvis,	idem.
Quassia,	idem,	idem,	Quassia exœcla.
Quercus alba et Q. tinctoria,	Quercus,	Quercus cortex,	Quereus robur.
Quinæ sulphas,	Quinæ disulphas,	Quinæ sulphas,	Quininæ sulphas.
Resina,	idem,	idem,	Pinus sylvestris, Resina.
	Rhamnus,	Rhamni baccæ,	Rhamnus catharticus, Baccæ.
Rheum,	idem,	idem,	Rheum palmatum et R. undulatum. Radix.
	Rhœas,	idem,	Papaver rhœas. Petala.
Rosmarinus,	Rosa canina, idem,	Rosæ fructus, idem,	Rosa canina. Fructus. Rosmarinus officinalis. Cacumina.
Rubia,			Rubia tinctorum.
Ruta,	Rumex, idem,	idem,	Rumex acetosa. Ruta graveolens.
Sabina,	idem,	idem,	Juniperus sabina.
Saccharum,	idem,	Saccharum purum,	Saccharum officinarum purificatum.
		Saccharum commune,	Saccharum non-purificatum.

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	Sacchari fæx,	idem,	Syrupus empyreumaticus,
Salix,		Salicis cortex,	Salix alba, S. fragilis, S. caprea.
Sambucus,	idem,	idem,	Sambucus nigra.
Santalum,	Pterocarpus,	idem,	Santalum rubrum. Pterocarpus santalinus.
Sapo,	idem,	Sapo durus,	idem.
	Sapo mollis,	idem,	idem.
Sarsaparilla,	Sarza,	idem,	Sarsaparilla.
Sassafras radices cortex,	Sassafras,	idem,	idem, Laurus sassafras.
Scilla,	idem,	idem,	Scilla maritima.
Scoparius,	idem,	Scoparium,	Spartium scoparium.
Senega,	idem,	idem,	Polygala senega.
Senna,	idem,	Senna Alexandrina et Senna Indica,	Senna.
Serpentaria,	idem,	idem,	Aristolochia serpentaria.
Sevum,	idem,	idem,	Adeps ovillus præparatus.
Simaruba,	idem,	idem,	Quassia simaruba.
Sinapis,	idem,	Sinapi,	Sinapis alba, S. nigra.
Sodæ boras,	Borax,	idem,	Sodæ boras, Borax.
	Sodæ carbonas impura,		Sodæ carbonas venale. Barilla.
Sodæ carbonas exsiccatus,	Sodæ carbonas exsiccata,	Sodæ carbonas siccatum,	idem.
Sodii chloridum,	idem,	Sodæ murias,	idem.
Sodæ bicarbonas,	Sodæ sesquicarbonas,	Sodæ bicarbonas,	idem.
Sodæ et potassæ tартras,	Sodæ potassio tартras,	Potassæ et sodæ tартras,	Sodæ et potassæ tартras.
Spigelia,	idem,	idem,	Spigelia marilandica.
Spiritus lavandulæ compositus,	Tinctura lavandulæ compositæ, Spiritus menthæ piperitæ,	Spiritus lavandulæ compositus, Spiritus menthæ,	idem. Spiritus menthæ piperitæ.
Spiritus myristicæ,	idem,	idem,	Spiritus nucis moschatæ.
Spiritus rosmarini,	idem,	idem,	Spiritus rosmarini.
Spongia,		idem,	Spongia officinalis.
Spongia usta,	Staphisagria,	idem,	Pulvis spongæ ustæ. Delphinium staphisagria.
Stramonii folia,	idem,	Stramonium,	idem, Datura stramonium.
Stramonii semen,	Stramonii semina,		idem.
Styrax,	idem,	idem,	Styrax officinale.
Styrax purificata,	Styrax colatus,	Extractum styracis,	
Sulphur,	idem,	idem,	Sulphur sublimatum.
Sulphur lotum,		Sulphur sublimatum,	Sulphur lotum.
Syrupus,	idem,	Syrupus simplex,	idem.



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Syrupus aurantii aurantii, corticeis,	Syrupus aurantii,	idem,	idem.
Syrupus limonis,	Syrupus limonum, Syrupus papaveris,	idem, idem,	Syrupus limonis. Syrupus papaveris somniaferi.
	Syrupus rhœados,	idem,	Syrupus papaveris rhœadis.
	Syrupus rosæ,	Syrupus rosæ centi- foliæ,	Syrupus rosæ.
Syrupus tolutani,	Syrupus sarzæ, Syrupus tolutani,	idem, idem,	Syrupus sarsaparillæ. Syrupus balsami tolu- tani.
Tabacum,	idem,	idem,	Nicotiana tabacum.
Tamarindi pulpa,	Tamarindus,	idem,	Tamarindus Indica.
Tamarindus,	idem,	idem,	Tamarindus Indica.
Tanacetum,			Tanacetum vulgare.
Taraxacum,	idem,	idem,	Leontodon taraxa- cum.
Terebinthina Cana- densis,	idem,	Balsamum Cana- dense,	idem.
Testa,	Testa,		
Tinctura aloes et myrrhæ,	Tinctura aloes com- posita,	Tinctura aloes et myrrha,	Tinctura aloes com- posita.
Tinctura assafoeti- dæ,	idem,	idem,	Tinctura assafoetidæ.
Tinctura benzoini composita,	idem,	idem,	Tinctura benzois com- posita.
Tinctura camphoræ,	idem,	Tinctura bucku, idem,	Tinctura buchu. idem et Spiritus cam- phoratus.
Tinctura castorei,	idem,	idem,	Tinctura castorei ros- sici.
Tinctura colchici se- minis,	Tinctura colchici,	idem,	Tinctura seminum colchici.
Tinctura cubebæ,	idem,		Tinctura piperis cu- bebæ.
Tinctura gallæ,	idem,	Tinctura gallarum,	idem.
Tinctura guaiaci am- moniata,	Tinctura guaiaci composita,	Tinctura guaiaci am- moniata,	idem.
Tinctura hellebori,	idem,		Tinctura hellebori ni- gri.
Tinctura humuli,	Tinctura lupuli,		Tinctura humuli.
Tinctura iodini,		Tinctura iodinei,	Iodini tinctura.
Tinctura iodini com- posita,	Tinctura iodinii com- posita,		
Tinctura lupulinæ,		Tinctura lupuli,	
Tinctura opii cam- phorata,	Tinctura camphoræ composita,	Tinctura opii cam- phorata,	idem.
Tinctura saponis camphorata,	Linimentum sapo- nis,	idem,	idem.
Tinctura sennæ et jalapæ,		Tinctura sennæ com- posita,	
Tinctura tolutani,		Tinctura tolutani,	Tinctura balsami tolu- tani.
Tinctura valerianæ ammoniata,	Tinctura valerianæ composita,	Tinctura valerianæ ammoniata,	idem.

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Tolutanum,	Balsamum tolutanum,	idem,	Toluifera balsamum.
Tormentilla,	idem,	idem,	Tormentilla officinalis.
Toxicodendron,	idem,	idem,	Rhus toxicodendron.
Tragacantha,	idem,	idem,	Tragacantha gummi.
Trochisei glycyrrhizæ et opii,		Trochisei opii,	
	Tussilago,		Tussilago farfara.
Unguentum antimonii,	Unguentum antimonii potassio tartratis,	Unguentum antimoniale,	Unguentum tartari emetici.
Unguentum cantharidis,	idem,	Unguentum infusi cantharidis,	Unguentum cantharidis.
	Ceratum cantharidis,	Unguentum cantharidis,	
Unguentum eupri subacetatis,		Unguentum æruginis,	Unguentum cupri subacetatis.
Unguentum gallæ,			Unguentum gallarum.
	Unguentum gallæ compositum,	Unguentum gallæ et opii,	
Unguentum hydrargyri,	Unguentum hydrargyri fortius,	Unguentum hydrargyri,	idem.
Unguentum hydrargyri ammoniati,	Unguentum hydrargyri ammonio ehloridi,	Unguentum præcipitati albi,	Unguentum hydrargyri submuriatis ammoniati.
Unguentum hydrargyri nitratis,	idem,	Unguentum citrinum,	Unguentum hydrargyri nitratis vel Unguentum eitrinum.
Unguentum hydrargyri oxidi rubri,	Unguentum hydrargyri nitrico-oxydi,	Unguentum oxidi hydrargyri,	Unguentum hydrargyri oxydi nitrici.
Unguentum iodini,			Unguentum iodinii.
Unguentum iodini eompositum,	Unguentum iodinii eompositum,	Unguentum iodinei,	
	Ceratum plumbi acetatis,	Unguentum plumbi acetatis,	idem.
Unguentum simplex,		idem,	Unguentum ceræ albæ.
			Unguentum ceræ flavæ.
			idem.
Unguentum veratri albi,	Unguentum veratri,		
Unguentum zinci oxidi,	Unguentum zinei,	idem,	Unguentum zinci oxydi.
Uva passa,	Uva,	Uvæ passæ,	Vitis vinifera, Fructus siccatus.
Valeriana,	idem,	idem,	Valeriana officinalis.
Veratrum album,	Veratrum,	idem,	Veratrum album.
Vinum,	Vinum xericum,	Vinum album,	Vinum album Hispanicum.
Vinum antimonii,	Vinum antimonii potassio-tartratis,	Vinum antimoniale,	Liquor tartari emetici.
Vinum colchici radicis,	Vinum colchicii,	idem,	

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Vinum veratri albi,	Vinum veratri,	Viola,	Viola odorata.
Wintera,			Wintera aromatica.
Zinci carbonas,	Calamina,		Zinci carbonas impu- rum, calamina.
Zinci carbonas præ- paratus,	Calamina præparata,	idem,	Zinci carbonas impu- rum præparatum.
Zinci oxidum,	Zinci oxydum,	Zinci oxidum,	Zinci oxydum.



# OFFICINAL PREPARATIONS AND DIRECTIONS.

## INTERNAL REMEDIES.

**POWDERS.**—These are of two kinds: *simple* and *compound*. The first are prepared by pulverization; and the second by the mixture of two or more simple powders, except where one of the ingredients is employed to facilitate the more minute division of the others, as in the case of the powder of ipecacuanha and opium. Many of the most important articles used in this form are powdered by persons who make it a special business, by grinding and stamping. When this operation is performed by the apothecary, or medical practitioner, it is most frequently accomplished by means of the pestle and mortar, and the sieve: but, in some cases, a stone slab and muller are required; whilst in others the article is merely rubbed through a sieve. Whenever a substance cannot be dried completely, without an alteration of its properties, recourse must be had to an intermedium, by which the moisture may be absorbed, or its state of aggregation modified. Thus, sugar is the best intermedium in pulverizing vanilla or nutmeg. When camphor is to be pulverized, the addition of a small quantity of alcohol will much facilitate the operation. In other cases, the intermedium should be of so hard a consistence as to assist in breaking down the substance to be pulverized; thus, gold-leaf is best reduced to powder by rubbing it with sulphate of potassa, and afterwards removing this latter by means of water.

The rules to be observed in the preparation of powders are:—

1. Operate, if possible, on perfectly dry articles, and in dry weather.
2. Adapt the nature of the mortar, and the mode of operating, to the nature of the substance: thus, woods and barks are to be pulverized in an iron mortar; sugar, alum, and nitre, in one of marble; corrosive sublimate in one of glass.
3. The mortar should be provided with a cover to prevent particles from being forced out by the action of the pestle, and also to arrest the escape of the finer particles, which would otherwise be diffused through the atmosphere, causing a loss of the product, and an annoyance to the operator.
4. Separate, from time to time, by aid of a sieve, the pulverized portions, returning the coarser particles to the mortar; and repeat this alternate pulverization and sifting until the process is completed.

**Compound Powders.**—1. Each substance is to be pulverized separately, and the quantity ordered in the prescription then weighed off; otherwise, the due proportions will not be maintained.

2. Pulverize soft substances with those which are the reverse, which will thus serve as an intermedium.

3. Pass all the substances through the same sieve, as this will render them more homogeneous, and will also prevent unnecessary loss.

Some substances, however well dried, are reduced to powder with great difficulty by the usual modes of pulverization; as, for instance, nux vomica and jalap, which require to be exposed to the steam of boiling water for some time, and then rapidly dried.

Few articles, except those containing volatile constituents, are deteriorated in their properties by being pulverized. Some, on the contrary, become more active by this process, from their less active portions being separated; for instance, the powder

of *ippecacuanha*, if properly prepared, and the ligneous part rejected, is far stronger than the root—all the efficient properties existing in the cortical portion.

Some other processes are employed to obtain certain powders.

*Precipitation*.—Tartar emetic is obtained in a perfectly fine powder, by precipitation from a concentrated aqueous solution by means of alcohol; so, also, the precipitated carbonate of lime is prepared by the action of a solution of carbonate of potassa on water of muriate of lime.

*Elutriation*.—This is a method by which the finer particles of a powder are separated from the coarser. It is performed by diffusing the powder through water, permitting the heavier portions to subside, then withdrawing the fluid, holding the finer particles in suspension, into another vessel, and allowing them to subside. This process is employed in making prepared chalk, &c.

*Granulation*.—This is used to obtain certain metals in a finely divided state; as zinc, tin, iron, &c.

Zinc is granulated either coarsely or finely: the first form is procured by melting the metal in an iron ladle, and pouring it slowly, in a fine stream, into cold water; the fine powder is obtained by rubbing the melted metal in an iron mortar. This metal loses its ductile properties at about  $400^{\circ}$ , and becomes so brittle as to be pulverized without difficulty. It does not melt, except at a temperature of  $773^{\circ}$ , so that the melting is many degrees above its brittle point; hence, by beginning the trituration at the melting point, it gradually reaches that at which it is most readily pulverized. The mortar should be thick and well heated before the fluid metal is poured into it. After being granulated, it should be properly sifted.

The granulation of tin may be effected in the same manner; but a more common mode is to pour the melted metal into a strong wooden box, provided with a closely fitting lid, and agitating till the tin is cold; by this means, it is rapidly converted into powder and small grains, which can be separated from each other by elutriation or sifting.

Iron is granulated by filing, or by means of a pestle and mortar (see page 199); but the best means to procure metallic iron in a finely divided state is by reducing it from the state of the carbonate, by means of hydrogen gas (see page 199).

**PILLS AND BOLUSES**.—Pills are small globular masses, of a semi-solid consistence, of the weight of half a grain to six grains, having as a base a powdery extract, &c., and rendered of the proper consistence by a syrup, pulp, &c. A bolus differs from a pill merely in being much larger, and generally less solid, weighing from six to twelve grains, and even more.

No form of medicinal agents is more frequently employed than that of the pill; not only because of the facility with which it is administered, and its comparatively little taste, but because this form answers so excellent a purpose in the preservation of certain compounds.

The article, or articles, to be administered in this mode, should first be formed into a consistent, moderately firm mass—sufficiently plastic to admit of its being moulded into shape, without adhesion to the moulding instrument, and yet of so firm a consistence as to retain the form given to it. To accomplish this, the following rules must be attended to:—

1. All the constituents which can be pulverized must be reduced to the state of a fine powder, and then thoroughly mixed together.

2. If soft ingredients enter into the composition, they must be triturated with the harder articles, which thus serve as an intermedium.

3. No deliquescent salt should enter into the composition of official pills; otherwise they will become altered and decomposed.

4. The nature of the excipient should be suited to that of the constituents: thus, syrups are to be used for most vegetable powders; soap for fatty matters; calcined magnesia for copaiba and turpentine. In some cases, no excipient is required, as for most of the gum resins. Extracts, also, when of proper consistence, can be made into pills without any addition. Mucilage, which is often ordered in the formation of various pills, is only suited to those which are to be used in a short time after

they are made; but is not suited to such as are to be kept, because pills into which it enters as an excipient become so hard as to pass through the bowels almost unaltered.

5. The excipient should be gradually added, and the mass beaten and triturated till it is perfectly homogeneous.

6. When the pilular mass is properly made, the next operation consists in dividing it into pills of equal size, which is effected by dividing it with a spatula into morsels of the requisite weight, and rolling them between the fingers; or, in a more effectual, rapid, and cleanly manner, by means of a pill-machine.

7. To prevent any adhesion of the pills after they are made, and to prevent any disagreeable taste, they are, in most cases, covered with an inert powder: as, powdered liquorice-root, starch, orris-root, lycopodium, and frequently with magnesia; but this latter is wholly unsuited to some preparations—for instance, to pills of calomel—as decomposition will be caused. In Europe, they are often coated with gold or silver leaf; but this plan is seldom adopted in this country. Where, from their nauseous taste, or other circumstances, it becomes expedient to cover them, this is best done by means of gelatine. Each pill, being stuck on the point of a thin wire four or five inches in length, is dipped into a solution of gelatine, so as to coat it completely, and the wire is then inserted into a pin-cushion, or a vessel containing fine sand, and left till the gelatine is firm, which occurs in about a quarter of an hour, when the pill can be removed. (See *Procter's Mohr and Redwood's Pharmacy*, 509.)

**EXTRACTS.**—This name is given to all products resulting from the evaporation of a solution, maceration, digestion, infusion, or of an expressed juice. They are generally of a soft consistence, of a dark color, and of an odor and taste analogous to those of the substance from which they are derived. They have been classed, according to the fluid employed in obtaining them; as watery, alcoholic, ethereal, vinous, acetic, &c. Some, however, are made from the expressed juices of plants, without any intermedium. The great object, in selecting one or more of these menstrua, is to employ that which takes up the largest proportion of the active ingredients of the root, bark, &c.; for the most advantageous solvent for one constituent may be wholly inefficient for others: thus, alcohol is the proper menstruum for resinous substances, water for bitter extractive, vinegar for articles containing the alkaloids, &c.; but, in many cases, an extract, containing all the active properties of the drug, can be obtained only by a combination or a succession of different solvents.

Extracts made by inspissating the expressed juices of plants have been considered to contain the active principles of the vegetable in a less altered form than by any other mode. But it has been shown that such is far from being the case, as, in some instances, the expressed juice does not contain the active constituents. Thus, in acornitum, much of the efficient principle is left in the residuum; added to which, in some extracts made in this manner, the medicinal ingredients are destroyed, or much deteriorated, in the evaporation. This is obviated, in a great measure, by allowing the expressed juice to evaporate spontaneously at ordinary temperatures; or, by carrying on this process in vacuo. It has been found that extracts made by the latter method have more of the aroma and taste of the original article, keep better, and are more efficient. When inspissation of the natural juices of the plant is not practicable, a solution of the active ingredients is to be obtained by the use of certain menstrua—as water and alcohol—according to the substance to be acted upon. When the active principles are soluble in water, that fluid is to be used as the vehicle of extraction; when resinous, alcohol is to be employed; when oleo-resinous, ether will be found the best menstruum. When it is desired that all the principles soluble in the various medicines should be re-united in the extract, the vegetable substance is first to be subjected to the action of one, and then to another, of the solvents; and the solutions thus obtained are to be mixed together, and properly inspissated. These solutions are obtained by maceration, digestion, infusion, and displacement. Decoction is seldom to be employed, as it affords extracts containing much inert matter, and, of course, of inferior quality. Of late years, the process of displacement has been much used in the formation of extracts, whatever the menstruum selected, as it affords a solution of



the soluble principles in the smaller quantity of fluid; and hence, prevents the injurious effects of too long an exposure to heat in the subsequent evaporation. (See Tinctures.)

With regard to the mode of evaporating extracts, much caution is requisite, as the various constituents of these bodies are very liable to undergo decomposition when exposed to the action of heat and atmospheric air. Sometimes the evaporation, especially of aqueous solutions, is performed over the naked fire; but this plan is liable to many objections, more particularly towards the close of the operation, when a small excess of heat may cause such a change in the character of the ingredients as to deprive them of all useful properties; and it is from this cause that so many of the extracts found in the shops are wholly worthless. Other and far better methods consist in the use of water and steam baths, which prevent all danger of burning the extract. In the inspissation, when conducted in open vessels, it is of importance that the evaporation should be carried on rapidly, that the solution may be exposed to the action of the air for as short a time as possible. Evaporation in *vacuo* is always to be preferred when practicable, as the process can not only be carried on at a lower temperature, but the deteriorating influence of the air is avoided; the great objection is the additional expense it entails on the operation. Spontaneous evaporation has also been successfully employed; though necessarily slow, it affords excellent products. It is always advantageous to aid this process by employing artificial heat to a certain degree, by conducting it in a drying room or warm closet, and by causing a current of dry air, heated to about  $100^{\circ}$ , to pass over the surface of the evaporating fluid. Extracts made in this manner keep well, not undergoing the spontaneous decomposition so detrimental to extracts in general. When alcoholic solutions are to be concentrated, distillation should always be used, as not only can the alcohol be saved, but, from the process being carried on out of the atmospheric air, one great source of injury to the product is avoided.

The consistence of extracts varies according to their ingredients, and the purposes to which they are to be applied. Two different degrees are recognized in the Pharmacopœias: one so soft as to be readily made into pills; the other so hard as to be pulverizable. These different forms of extracts are useful because of the readiness with which they can be formed into pills or powders prescribed; but, in many cases, extracts undergo a change, some becoming soft and others hard; and one of the difficult parts of an apothecary's business is to keep these preparations of a uniform consistence. They should be preserved in glazed earthenware pots, protected as much as possible from the action of the air. Notwithstanding every precaution that can be taken, a diminution of activity will, sooner or later, take place; hence, these preparations should be examined from time to time, and, if necessary, renewed. The safest plan is to renew those made from recent plants once a year.

**CONFECTIONS, CONSERVES, ELETUARIES.**—As there is no essential difference in these preparations, they may be advantageously treated under one head. They are simple and compound: the first being merely a mixture of a recent vegetable substance and sugar, beaten into a uniform mass; the second, of the same substances, but in greater numbers. In consequence of the greater simplicity of prescriptions, of late years, the number of preparations of this kind have greatly diminished, and they are employed more as vehicles for other medicines than for their own remedial powers. The following rules are to be observed in their preparation and preservation:—

1. The powders to be incorporated are to be in a state of fine division, and the pulps used, perfectly homogeneous, and not too fluid.

2. The mixture should be intimate, and the consistence of the resulting mass should be solid enough to prevent a separation of the ingredients, and yet sufficiently soft to allow of its being swallowed without being masticated.

3. If the mixture swells up, and gives off carbonic acid, it is to be well rubbed in a mortar, to break down any sugar that may have crystallized, and any hard lumps that may have formed, so as again to form a uniform mass.

4. They should be preserved in earthenware or porcelain pots, well covered, and kept in a moderately moist situation.

**PULPS** are simple medicinal preparations, of a soft consistence, formed of the tissues of vegetable substances, or of some of its thin parts; they differ from extracts in containing insoluble as well as soluble principles. They are to be prepared by rubbing the fruit, or other articles from which they are made, through a metal sieve, so as to separate the vegetable fibre from the soft parts by which it is surrounded. When the fruit is hard or dry, it is to be softened by means of boiling water, previous to expression through the sieve. The expressed pulp, if not sufficiently consistent, is to be properly evaporated. Pulp is to be preserved in the same manner as confections. Very few of these preparations are now used in medicine.

**SYRUPS.**—These are liquid, viscous medicines, consisting of a concentrated solution of sugar in aqueous fluids.

All fluids susceptible of dissolving more than their weight of sugar can be formed into syrups. These syrups are of two kinds: simple or compound. Simple syrup is prepared by dissolving sugar in pure water; and compound syrups are obtained by dissolving the sugar in solutions of various substances, formed by infusion, decoction, expression, &c. The former is usually made in this country from refined sugar, and not, as in Europe, from the impure and unrefined qualities of this article. All syrups require to be perfectly filtered, so as to be limpid, and should have a certain viscosity of consistence, and be capable of being preserved without entering into fermentation, or crystallizing. These latter properties depend on their containing a proper proportion of sugar—an excess being deposited in a crystalline form, and a deficiency causing the solution to run into fermentation. The best mode of ascertaining the proper point of concentration is by means of its specific gravity at different temperatures. The specific gravity of well-prepared simple syrup is, when boiling, about 1.261, and when cold 1.319; but the proper degree of concentration is more readily obtained by means of Baumé's hydrometer. This should stand at about 30° in boiling syrup, and at 35° when it is cold. Other modes are also employed, which, although sufficiently accurate in the hands of an experienced operator, are not to be generally depended upon. They are derived from the degree of viscosity acquired by the syrup, as shown by the time required for the parts of a drop to re-unite, and by the length of the thread which a drop will produce before detaching itself, when poured from a spoon or ladle. When the syrup, on cooling, presents a crystalline pellicle, it is a proof that the evaporation has been carried too far; but, when the sugar has been mixed with an acid, or when the process has been too much prolonged, the sugar loses its power of crystallization, however much the syrup is concentrated, and, therefore, does not form a pellicle.

The compound syrups, when kept any time, are liable to various alterations, depending on their nature, and the degree of care used in their preparation. Thus, the acid syrups, as the syrup of lemons, when too concentrated, deposit a copious white precipitate; and, in some cases, solidify entirely. By heating them, they again become liquid; but again let fall a precipitate on cooling. This deposit is analogous to grape sugar, and is caused by the action of the acid on the sugar. When the sugar bears too small a proportion to the liquid, syrups are apt to run into fermentation. Even when the sugar is in proper proportion, this change often takes place, if the solution contains much amylaceous or extractive vegetable matter. Even when too much concentrated, they may also undergo this change, from part of the sugar being deposited in a crystalline state; and the crystal, attracting the sugar necessary to the preservation of the syrup, reduces its strength, and renders it liable to the same change as though it was originally too weak.

Syrups, especially those containing the juice of fruit, should be bottled whilst hot, and, when cold, well stopped and sealed; and these, as well as all other kinds, should be kept in a temperature not exceeding 60° F. Various plans have been devised to preserve syrups; but the best is to prepare them only in such quantities as will be used within a short time. The addition of chlorate of potassa, as advised by Macculloch, and of sugar of milk, as advised by Chereau, has proved useful; but the best mode is that of Mr. Durand, viz., adding about one drachm of Hoffmann's anodyne to

each pint of syrup; this appears to have the property of arresting or preventing any tendency to fermentation.

MELLITES, OR HONEYS, are liquid, viscid medicines, somewhat analogous to syrups, but in which the sugar is replaced by honey. Like syrups, they may be divided into simple and compound, or medicated. Their preparation, medical properties, modes of administration, and preservation are very similar to those of the syrups, and do not, therefore, require further notice. Though formerly much used, they are now seldom prescribed, as they are often found to disagree with the stomach, especially if made with the honey of commerce in an unpurified state.

INFUSIONS are aqueous solutions, made by treating vegetable products with cold or hot water, but never carried to ebullition. They are seldom made by the apothecary, who merely furnishes the medicinal ingredients; whilst the preparation is usually confided to the nurse or other attendant on the patient. This plan, although more economical than when the preparation is compounded by the apothecary, often renders the prescription of the physician of little avail, from the infusion being erroneously made. They are generally prepared by pouring boiling water on the ingredients, and macerating in a tightly-covered vessel until the liquid cools; or the vessel is kept for some time at a low heat before a fire. In most cases, an infusion should be strained or filtered before being used; but, in general, nurses are content merely to decant them for use. The vessels in which infusions are made are usually of stone or earthenware. When it is an object to retain the heat as long as possible, polished metallic vessels, provided they are not acted upon by the infusion, are to be preferred, as, from their inferior radiating powers, they retain heat better than earthenware. Infusions are mostly made for extemporaneous use, as they are exceedingly liable to decomposition, and consequently cannot be kept for any time without spoiling. They may, however, be preserved for some time by pouring them, whilst hot, into bottles, so as to fill them, and forcing in stout corks. If the operation be properly performed, so as to perfectly exclude the air, the infusion will keep for some months. An infusion made with cold water, by the process of displacement, has less tendency to spoil than one made in the usual manner with hot water.

DECOCTIONS differ from infusions in the circumstance that the substance to be acted upon is subjected to the solvent action of the menstruum at its boiling point, and continued for a longer or shorter period, according to the solubility of the substance, or its constituents. By decoction, all the principles soluble in water can be obtained; and even many substances not properly soluble in that fluid are diffused through it, and held in suspension. On the other hand, many substances are injured or destroyed by decoction, especially when their active principles are volatile, and when, during ebullition, chemical changes take place, by which the active constituents are rendered insoluble, or are decomposed. In fact, protracted ebullition is seldom required since the process of displacement has been known, as it has been found that water at a common temperature, by this method, will exhaust most vegetable substances more effectually than the same fluid at  $212^{\circ}$  by decoction. There are some exceptions; as all emulsive preparations, and certain gummy solutions, require ebullition. As in the case of infusions, decoctions are only made extemporaneously, for they readily decompose by keeping. They should be prepared in closed vessels, and generally in those of earthenware. Copper vessels should be used with great care, as many vegetable decoctions corrode them, especially if permitted to cool in them. Iron vessels are not to be employed when the decoction contains tannin or gallic acid. Zinc is very rapidly acted upon by many vegetable substances, and should, therefore, be avoided. In all cases, the vessels employed should be deep and narrow, rather than broad and shallow, to obviate as much as possible the influence of the air on the product.

TINCTURES are solutions of vegetable, animal, and, in some cases, of mineral substances in spirituous fluids. The spirit employed is alcohol, either diluted or undiluted, either pure or medicated; and, in some cases, ether. The form of tincture is one much



used in pharmacy; it presents the active principles of drugs in a small volume, it can be preserved in an unaltered state for a long time, and is, in most cases, well adapted to unite with other substances in extemporaneous prescriptions. Tinctures are made by maceration, or by displacement.

*Maceration* is an operation in which, by the action of a fluid at common temperatures, continued for a certain length of time, a solution of the principles of an organic substance in that fluid is obtained. As before stated, in making tinctures, the strength of the spirituous menstruum employed is varied according to circumstances. If the substance to be acted upon is resinous, alcohol is to be employed; if it contains also matters soluble in water, and insoluble in pure alcohol, this article, in a diluted state, is to be used. The period of maceration varies from some hours to several weeks; and, during the process, the vessel in which it is performed should be kept closed, to prevent evaporation. When the spirit has remained upon the substance for the directed period, it should be decanted, instead of being left, as is too often the case, standing on the dregs until it is used. This practice is erroneous, and may be attended with evil consequences; for the characters and properties of a tincture which has been suffered to remain too long in contact with the solid ingredients, will often be found to differ considerably from what they would have been if the process had been terminated at the indicated time. When a tincture is made by maceration, it requires to be filtered, after being separated from the dregs; otherwise, it will be turbid, and deposit much insoluble matter on standing.

*Displacement.*—This process is of comparatively late introduction in the making of tinctures, &c. For a great proportion of these preparations, it is decidedly to be preferred to maceration; but for others it has not proved so satisfactory. Mohr and Redwood observe, on this point:—

“When tinctures are made in large quantities, displacement is never likely to supersede maceration, on account of any practical advantages it may possess. If the prescribed directions be duly attended to, the process of maceration is unexceptionable. The process is more simple than the other; the mode of operating is more uniform, it is, in fact, always the same; it requires less of skill and dexterity in conducting it; it requires less constant attention during its progress, which, in operating on large quantities, is a consideration; and, finally, the apparatus required is less complicated.

“When only small quantities of tincture are made at a time, and kept in stock, the adoption of the process of displacement will often be found convenient and advantageous. It offers the means of making a tincture in two or three hours, which, by the other process, would require as many weeks. The process being thus completed in so short a time, for the quantity contemplated might be made at one operation, it would not be so likely as the other to experience neglect during the performance of it, or a deviation from the prescribed instructions; the product would, therefore, be more uniform. Finally, in many cases, the tincture and spirit may be removed from the dregs more completely, in operating on small quantities, by this process, than by the other.”

Several forms of displacement-apparatus are used in this country, but the one most frequently employed is that of Boullay. It is a vessel nearly cylindrical, made of tin, with its lower end funnel-shaped. It is made of various sizes: with the cylinder 12 inches in length by  $2\frac{1}{2}$  in diameter, or 14 by 4, or 17 by 6. A movable metallic plate, pierced with numerous holes, and provided with a knob or handle in the centre, and fitted accurately to the lower part of the cylinder, is to be placed in the projecting supports. On this, a thin stratum of eared cotton, covered with the powder to be operated upon, is to be laid, and the process carried on as directed above. This apparatus should be furnished with a stopcock at the lower end. Soubeiran has made an improvement on this filter by adapting to it a tin receiver, provided with a cock at the lower part, so that the filtered liquor can be drawn off at will. The substance to be exhausted must be reduced to various degrees of division in different instances; but, for the most part, the form of coarse powder is the most suitable, because, when the powder is very fine, the fluid is apt to be arrested in its passage, after becoming saturated with the soluble principles. In general, it is proper to soak the powder for a few hours with a sufficiency of the spirit, to make it into a stiff pulp, before putting it into

the cylinder; otherwise, the spirit may make narrow passages for itself, and leave a part of the material unacted on: but, in some instances, no such preliminary step is necessary, and here, as in the case of tincture of myrrh, the best procedure is to introduce the powder in the dry state, and to pour the spirit over it. Before the spirit is poured over the pulp or powder, it must be packed in the cylinder. The degree of pressure to be used, which varies in different instances, is to be learned only from experience in each case; and it may be observed, that this is the operation on the correct performance of which the success of the process chiefly depends, and the only one which requires some skill and nicety of management. If the material be loosely packed, the spirit will pass through too quickly, and not sufficiently saturated; if too firm pressure be employed, percolation will take place too slowly, or not at all. On the whole, the firmness of the packing should be inversely as the solvent power of the spirit upon the solid materials; but to this rule there are many exceptions. Since the fluid, for an obvious reason, passes after a time with increasing speed, it is occasionally necessary to press down the matter in the cylinder as the process advances; but neither does this rule always apply. In some operations, especially those on the large scale, it is found useful to promote the displacement by pressure. This may be produced simply by supplying the solvent through a tube several feet high, adapted to the upper end of the cylinder, and terminating at the top in a funnel. A still better method, as involving the use of less spirit, consists in the use of compressed air. By means of a condensing syringe, or a column of water or mercury in a tube, air is condensed in the bottle below; and when the material and spirit have been introduced into the percolator, the top is tightly secured by a screw, and the compressed air admitted by a stopcock. This method answers excellently on the small scale with a column of mercury.

The solution which first passes through in this process is always in a state of high concentration. In general, it is a simple solution of the soluble ingredients of the crude drug in the fluid employed. But sometimes the solvent, if compound, is resolved into its component parts; and the fluid which passes through is only one of these, holding the soluble parts of the drug in solution. Thus, if diluted alcohol be poured over powder of myrrh, in the cylinder, the fluid which first drops into the receiver is a solution of oily consistence, composed of resin and volatile oil dissolved in alcohol. And, if powder of galls be acted on in like manner, by aqueous sulphuric ether, two layers of fluid are obtained, a highly concentrated solution of tannin in the water of the ether, and a weak solution of the same principle in pure ether.

Displacement is accomplished, in the manner here described, with little or no intermixture of the liquid above, with that which is below, in the pulpy mass. If, after the pulp has been allowed to drain till drops cease to fall, the quantity of spirit retained by it be ascertained—that is, by subtracting what has dropped from what has been used to make the pulp,—and the same quantity be poured gently over the mass, repeatedly, as soon as the dropping caused by each successive addition ceases, a series of liquids will be obtained by the simple displacement of one another in the pulp; and the last portion of spirit used may be obtained by pouring over the pulp the same quantity of water. Hence, one of the many advantages possessed by this method of making tinctures, over the ordinary mode by maceration and expression, is that no part of the tincture is lost by being left behind in the residuum.

Even when a strict attention is paid to the prescribed formula, the resulting tinctures may be found to vary in medicinal strength; for any variation in the activity of the drug will influence the tincture. These preparations, although retaining their properties better than other vegetable solutions, will gradually undergo changes, from age and exposure, either losing their color, depositing insoluble matter, or, in some cases, as in that of the tincture of kino, becoming less astringent, and gradually gelatinizing.

WINES are tinctures in which the menstruum is wine. The wine ordered to be employed by the U. S. and British Pharmacopœias is Sherry. The solvent power of wines on vegetable products depends on the water and alcohol they contain; the other principles found in them are injurious to it as an excipient, the mucilage disposing

to fermentation, and the coloring matters and tannin often decomposing the active principles of the vegetable substances dissolved in it. On this account, these preparations are now going out of use, and mixtures of alcohol and water, of the proper strength, substituted as solvents. These can always be made of definite strength, which can seldom be attained when wine is used.

Medicated wines are made by maceration or displacement; but the latter process is seldom used. In whatever way they are prepared, they are very liable to undergo a change, and hence should be made in small quantities only, and kept in well-closed bottles, and in a cool and dark place.

VINEGARS are solutions of certain parts of vegetables in distilled vinegar or diluted acetic acid. Few of these preparations are officinal; but, in some cases, the state of solution in distilled vinegar is the best that can be desired, at least as far as energy is concerned. This is particularly the case when the activity of the medicinal substance depends on the presence of an alkaloid, which, by uniting with the acetic acid, forms a salt that is readily soluble; and, therefore, may be more perfectly extracted than by other menstrua.

As even distilled vinegar contains vegetable matter, rendering it liable to decomposition, it has been found advantageous to substitute acetic acid, properly diluted. In consequence of this liability to become decomposed, medicated vinegars should be made in small quantities, and renewed at short intervals. In many cases, the acetates of the vegetable alkaloids, dissolved in water or diluted alcohol, may be substituted for medicated vinegars, producing all their good effects, and attended with but few of their disadvantages.

MIXTURES are liquid medicines containing two or more ingredients, generally of extemporaneous preparation, though a few are recognized as officinal. They are in very constant use in the administration of remedies. The ingredients which usually enter into their composition are salts, and other solid bodies which are soluble, or readily miscible with aqueous fluids; also tinctures, spirits, syrups, decoctions, &c.

In making a mixture, the objects to be attained are the perfect solution of the soluble ingredients, and an equal diffusion of those which are not so, through the excipient, as well as the thorough admixture of all the constituents, so that each dose shall be similarly composed. The combination of articles in a mixture is effected either by agitation, or by rubbing the ingredients together in a mortar. When volatile substances enter into a mixture, they should be added last. Insoluble powders, which are easily diffused through a fluid, may be mixed with the liquid ingredients, by merely shaking them together in the bottle. When, however, powders do not mix readily with liquids, they must be triturated in a mortar with a small quantity of the fluid, gradually adding more, until they are of the consistence of thin paste. In the same manner, extracts and electuaries are to be rubbed down with a portion of the excipient previous to putting them in the bottle.

*Draughts* differ from mixtures only in being designed to be taken at a single dose. This is not a common mode of prescribing medicines, but in some cases it is advantageous, as, when it is wished to apportion the doses of a medicine accurately, or when the medicine is liable to undergo a change from the action of air.

*Emulsions* are mixtures containing substances of an oleaginous or resinous nature suspended in aqueous fluids by the aid of gum, syrup, yolk of eggs, or any viscid matter. It is a mechanical compound, and the union of its ingredients is promoted and rendered more or less permanent by the addition of an alkali. Emulsions are made by triturating certain oleaginous seeds with water, or by mixing the oil procured from them with the necessary ingredients; and also from gum resins in the same manner. Sometimes they are made with oils and an alkali. In making an emulsion of the oils or oleo-resins with mucilage, the former should be gradually added to the latter; by adding the mucilage to the oil, a good emulsion cannot be formed. Mucilage is preferable to an alkali in making many emulsions, as those with castor oil or copaiba; an alkali is preferable in forming an emulsion of almond or olive oil; but an emulsion formed with either of these agents alone will often separate, if the other be added. The presence of soluble salts in an emulsion is also apt to



cause a separation of the oil. Much spirit will produce the same effect in emulsions made with mucilage, and an acid in those made with an alkali. Some substances cannot be formed into good emulsions either with an alkali or with mucilage. This is the case with spermaceti and oil of turpentine. In such cases, the yolk of an egg is the best agent for effecting the admixture, by rubbing down the ingredients in a mortar.

Volatile oils are most readily made into an emulsion by being previously mixed with one of the terebinthinate fixed oils. Seammony is formed into an emulsion by means of milk; but resin of jalap will not unite with this fluid, and is best emulsified by triturating it with almonds and water. Emulsions should be made with cold water, and strained.

Mr. W. Procter gives the following valuable directions for making emulsions (*Phil. Journ. Pharm.* xv. 11): "In making an emulsion, a good deal depends even on so slight a circumstance as the form and material of the mortar and pestle. An emulsion may, indeed, be made in a smooth porcelain mortar, but the process is unquestionably more successful and easy in a Wedgewood one, and still more so in the old-fashioned marble mortar, which is generally used to this day by the druggists and apothecaries in England. But whatever be the composition of the mortar, it is essential that it should be perfectly *round* at the bottom; not flattish, as is sometimes the case; and the pestle should be so formed as in its motion to leave no hollows between its base and the concave surface of the mortar. Otherwise, the emulsion will most probably be imperfect. The mucilage or other viscid substance should always be put into the mortar before anything else: the oil (or balsam) may then be very gradually rubbed in, taking care not to add it more quickly than it can be subdued by the pestle; and if, during this part of the manipulation, the mixture should begin to assume a breaking or curdling appearance at the edges, a few drops of water must be immediately incorporated with it, before adding the remainder of the oil. For want of this precaution, I have often known an emulsion suddenly to lose its tenacious consistence in the mortar, and it is then in vain to endeavor to restore it. After the oil is thoroughly incorporated, some care is requisite to avoid separating it again by too hasty an effusion of the water or other fluid of the mixture; and, if any alcoholic or acid liquid is to be added, it must be at the very end of the process. Indeed, an acid liquid, even a slightly acescent syrup, will often entirely destroy the emulsion. Mixtures of copaiba are frequently spoiled by the addition of spir. eth. nit.; which might be avoided by first diluting it with one or two portions of water."

**MEDICATED WATERS.**—This term is used by the U. S. Pharmacopœia to designate all preparations of water impregnated with medicinal substances, not appertaining to other classes of preparations. It includes the DISTILLED WATERS of the British Colleges, and is a more appropriate designation, because many of the latter preparations are not distilled waters, but are made with an essential oil united to the water by trituration or agitation, no distillation being employed.

*By Distillation.*—There are two modes of obtaining medicated waters by this process: 1st, by distilling the water directly off the substances; 2d, by employing the essential oil already separated from the vegetable, and distilling it over with the water. In most cases, where the fresh plant can be procured, it is to be preferred. Many of these substances lose their volatile oil and fragrant properties when dried; but, in some instances, the oil is retained, notwithstanding desiccation. Many which lose the oil by the process of drying retain it fully for a length of time, when preserved by being beat into a pulp with common salt; and, when used in this state, afford very good distilled waters.

The material which supplies the volatile oil is, in general, simply mixed with the water in a state of fine division; and this is probably the best mode, where heat is used in such a way as to exclude the risk of empyreuma. If it does not require to be finely divided, as in the case of fresh leaves and flowers, it may be put conveniently into a net-bag, which, suspended in the middle of the still, may be withdrawn with facility, when its contents are exhausted. Some manufacturers use, not water, but steam, for obtaining distilled waters: that is, the material to be distilled is spread

over a fine gauze partition, or a plate perforated with numerous small holes, and steam is driven through the mass.

When the vegetable substance to be exhausted is a bark, wood, or other solid matter, it must be reduced to a state of moderately fine division. But this is not generally necessary in the case of leaves or flowers, because boiling water breaks down the cells in which the volatile oil is contained. When leaves, however, are thick and leathery, as in the instance of the cherry-laurel, the process is facilitated by chopping them down; and, in most cases, where leaves are large, it is difficult to get a sufficient quantity into the still without cutting them into pieces.—In preparing the finer kinds of distilled waters, it is necessary to clean the materials carefully, to remove all decayed leaves or flowers, or those infested by insects, and sometimes also to separate the leaf-stalks, or the green claw of the petals.

Heat may often be applied directly to the vessel; but in this way empyreuma is apt to be occasioned, especially in large operations, in consequence of the solid matters remaining fixed at the bottom. To avoid this, it is usual to apply the heat, in limited operations, through the medium of a solution of hydrochlorate of lime, which raises a temperature between  $212^{\circ}$  and  $270^{\circ}$ , according to its strength—or by means of an oil-bath, with a thermometer to regulate the temperature; and, on the great scale, it is best applied by means of steam admitted under pressure into a space surrounding the still.—Another cause of the empyreumatic taint of some distilled waters is the formation of a species of mucilaginous substance, at the expense of the volatile oil. This substance, which forms chiefly when the distillation is pushed too fast, or too far, and is seen encrusting globules of volatile oil, undissolved in the water, is apt to deposit itself on the side of the still, above the boiling materials, where it is afterwards decomposed by the heat. This fact explains the well-known observation, that the finest distilled waters are obtained by gentle distillation, and by abstaining from complete exhaustion of the materials. A still greater improvement is to prepare them with the vacuum-still, in the same way as is now often practised in making extracts.

The other mode of obtaining medicated waters by distillation is by employing the volatile oil, previously separated from the plant, for the vegetable itself. This mode of operating affords a product less liable to change than the above; but it is not so aromatic as when obtained from the fresh plant.

Distilled waters, however carefully they may be kept, are apt, sooner or later, to lose their aroma; and some of them even become mouldy, and acquire thereby an unpleasant odor. They have been thought to keep better with the addition of about a fortieth part of rectified spirit; which may be either put into the still with the water, or added afterwards to the distilled fluid. But the advantages of this addition, although sanctioned by the authority of the Dublin Pharmacopœia, are doubted by practical men. It is believed that the most effectual precaution for preserving them is to prepare them with extremely pure natural waters, such as snow, rain, or very fine spring water (Müller), free especially of any unusual proportion of carbonic acid; and to keep them in black, orange, or red bottles, not in bottles of clear glass (Hanle). A better mode of procedure is to re-distil the water as soon as any change is perceived in it; this restores its original odor, and renders it less subject to alteration.

*By Admixture.*—Another method of making medicated waters is by impregnating the water with the volatile oil, by triturating them together with the addition of carbonate of magnesia, and filtering to remove the latter. This affords an excellent product, as it is pure and permanent. The addition of the carbonate of magnesia is merely to enable the operator to produce such a minute division of the oil as will enable water to act on it more efficiently. Other powders act in the same way, and are preferred by some manufacturers.

**DISTILLED, ESSENTIAL, OR VOLATILE OILS.**—Volatile oils are contained in vegetable cells, generally peculiar, and often so large as to be distinct to the naked eye. Sometimes they exist in such abundance that the oil may be obtained by mere expression. The oils of lemon, orange, bergamot, and citron are prepared in this way by the manufacturer; and from many other substances, such as the unripe germen of

rue, and the undeveloped corolla of the clove-tree, oils may be squeezed out by pressure with the nail. In some rare instances, as in that of the Liquid Borneo-Camphor from the *Dryobalanops Camphora*, and that of the Laurel-oil of Guiana from a species of *Ocotea*, volatile oil is obtained largely, and of considerable purity, by exudation from incisions. Much more frequently, however, it is exuded spontaneously, or from incisions, as a turpentine in combination with resin, or as a gum-resin in union with both gum and resin. Most frequently of all, it cannot be obtained by any of these modes, but adheres with more or less force to the flowers, leaves, fruit, bark, or wood, which contain it. In that case, it is sometimes destroyed or dispersed when the plant is dried, more especially if the organ which contains it is the flower; but often, when contained in the leaf, and very generally, if contained in the seed, bark, or wood, it is retained in part, or altogether, under desiccation, and even under long keeping. In some instances, it appears that the volatile oil obtained from plants does not exist ready formed, but is produced, on bruising or distilling them with water, through the reaction of other principles on one another. Of this mode of production, two remarkable examples exist—the volatile oils of the bitter almond and black mustard seed; and it is probable that the oils of cherry-laurel leaves, peach leaves, and of the leaves of other amygdalaceous plants, are similarly circumstanced.

A few volatile oils used in medicine are obtained by expression, such as the oils of orange, lemon, and bergamot, already mentioned. When oils exude along with resin in the form of turpentine, they may be separated from the resin by heat alone, as they are volatilizable at about the temperature of  $400^{\circ}$ . But thus obtained, they cannot be of fine quality, because the heat required is too near that at which resins, as well as the oils themselves, undergo decomposition. In general, therefore, this plan is not followed, for pharmaceutical purposes; and volatile oils are obtained from turpentine by distilling them with water. For, although they do not enter into ebullition at the temperature of boiling water, their vapors pass over in large quantity with steam; and, condensing along with it, form distilled waters—with volatile oils either floating on the water, or, more rarely, sinking to the bottom. The volatile oils of many vegetable substances are to be separated in this way alone, because the other principles, contained along with them in the crude substances, are empyreumatized by the higher temperature which is required to disengage the oil without the co-operation of watery vapor. In some instances, it has been thought advantageous to substitute for water in the still a strong solution of common salt, because a somewhat higher temperature is required to boil it. There seems an advantage, in this change, for the rectification of oils previously obtained from the raw materials in which they reside; but the advantage in the ease of distillation from crude vegetable substances is doubtful.

The method of distilling volatile oils differs little from that described above for preparing distilled waters. The same precautions must be observed in applying heat, and for the same reasons. The formation of mucilaginous matter at the expense of the oil, towards the close of the distillation, is shown by the globules of oil coming over enveloped in a fine pellicle of it. The quantity of water must be proportionally less, or, rather, the same portion of water is to be used with successive portions of the material which yields the oil; otherwise, a material loss is sustained by solution of the oil in the water. In some instances, where the oil exists in low proportion, and is of great value, the distilled fluid should be left at rest for some time, and exposed to as low a temperature as can be commanded.

The mixed vapors which pass over condense into a milky-looking fluid, which, after standing some time in the receiver, separates into two portions, one a solution of a part of oil in water, and the other of the oil itself, which occupies the upper or lower part, according as it is lighter or heavier than the water.

Chevallier gives the following rules for the distillation of volatile oils:—

1. To operate upon large quantities, in order to obtain a greater product, and of better quality.

2. To conduct the distillation rapidly.

3. To divide the substances minutely, in order to facilitate the extrication of the oil.

4. To employ only sufficient water to prevent the plant from burning.





Citrus Bergamium—rind of 100 bergamots, by distillation	-	-	-	Ra.	2.9
Citrus Limonum—rind of 100 lemons, by expression	-	-	-	Ra.	1.9
Citrus Limonum, do. by distillation	-	-	-	Ra.	1.4
Cochlearia Armoracia—fresh seeds	-	-	-	Ra.	0.9
Coriandrum sativum—dry fruit of French commerce	-	-	-	Ra.	2.3
Coriandrum sativum—dry fruit of German commerce	-	-	-	Da.	9.0
Croton Eleutheria—cascarilla bark	-	-	-	Bl.	5.62
Cuminum Cyminum—dry fruit of French commerce	-	-	-	Ra.	44.0
Cuminum Cymium—dry fruit of German commerce	-	-	-	Bl.	32.5
Daucus Carota—dry fruit	-	-	-	Ra.	0.66
Daucus Carota—fresh root	-	-	-	Ra.	0.14
Dracocephalum moldavicum—flowering herb	-	-	-	Ra.	2.10
Drimys Winteri—Winter's bark (probably, however, only <i>Canella alba</i> )	-	-	-	Ra.	0.50
Eugenia Pimenta—pimenta berries, <i>Jamaica</i>	-	-	-	Ra.	12.38
Feniculum officinale—dry fruit of French commerce	-	-	-	Ra.	33.0
Feniculum officinale—dry fruit of German commerce	-	-	-	Ma.	56.6
Feniculum officinale, do. do.	-	-	-	Bl.	83.0
Feniculum officinale, do. do.	-	-	-	Da.	60.4
Feniculum officinale—flowering herb, <i>Grasse</i>	-	-	-	Ra.	4.9
Feniculum officinale—herb after flowering, <i>Grasse</i>	-	-	-	Ra.	6.0
Galipea officinalis—Cusparia-bark of commerce	-	-	-	Ra.	1.5
Genista canariensis—Rhodium-wood	-	-	-	Ra.	0.47
Geum urbanum—dry roots	-	-	-	Ra.	0.53
Hyssopus officinalis—flowering herb, <i>Grasse</i>	-	-	-	Ra.	5.30
Illicium anisatum—star-anise-fruit	-	-	-	Ra.	34.21
Illicium anisatum—star-anise-fruit	-	-	-	Da.	25.5
Juniperus communis—green berries, 12 Sept.	-	-	-	Ra.	3.9
Juniperus communis—ripe berries, 1 Dec., <i>France</i>	-	-	-	Ra.	7.75
Juniperus communis, do. fresh, <i>Germany</i>	-	-	-	Do.	15.5
Juniperus communis, do. a year old, <i>Germany</i>	-	-	-	Ma.	10.8
Juniperus communis, do. a year old, <i>Germany</i>	-	-	-	Bl.	16.25
Juniperus Sabina—fresh twigs, 5 March, <i>Grasse</i>	-	-	-	Ra.	19.05
Juniperus Sabina—fresh twigs, 2 Oct., <i>Paris</i>	-	-	-	Ra.	14.25
Juniperus Sabina—dried twigs, recent, <i>Germany</i>	-	-	-	Ma.	40.0
Juniperus Sabina—dried twigs, a year old, <i>Germany</i>	-	-	-	Ma.	25.0
Larix Cedrus—fresh cedar wood, <i>Paris</i>	-	-	-	Ra.	0.3
Larix Cedrus—cedar wood of commerce	-	-	-	Ra.	4.25
Laurus nobilis—fresh leaves, 26 Jan., <i>Paris</i>	-	-	-	Ra.	5.25
Laurus nobilis—leaves some years dried, <i>Germany</i>	-	-	-	Bl.	4.10
Laurus nobilis, { fresh leaves, } poor soil, low site	-	-	-	Chr.	7.33
Laurus nobilis, { early in Oct. } poor soil, high site	-	-	-	Chr.	6.9
Laurus nobilis, { near <i>Edinb.</i> } very fine soil, low site	-	-	-	Chr.	17.12
Lavandula vera—flowering herbs, 2 Aug., <i>Grasse</i>	-	-	-	Ra.	11.5
Lavandula vera, do. 2 Aug., <i>Grasse</i> , north exposure	-	-	-	Ra.	9.12
Lavandula vera—flowering herb, 26 July, <i>Soureillas</i>	-	-	-	Ra.	9.0
Lavandula vera—herb after flowering, 26 Sept., <i>Soureillas</i>	-	-	-	Ra.	15.0
Lavandula Spica—fresh herb, 24 July, <i>Paris</i>	-	-	-	Ra.	7.62
Lavandula Spica—fresh herb, 4 Aug., <i>Grasse</i>	-	-	-	Ra.	12.5
Lavandula Stoechas—dried spikes	-	-	-	Ra.	6.43
Ligusticum Levisticum—fresh herb, <i>Paris</i>	-	-	-	Ra.	1.12
Melissa officinalis—fresh flowering herb	-	-	-	Ra.	0.25
Mentha piperita—fresh tops in flower, <i>Grasse</i>	-	-	-	Ra.	6.25
Mentha piperita—fresh tops in flower, <i>Paris</i>	-	-	-	Ra.	3.40
Mentha piperita—dried tops in flower, <i>Germany</i>	-	-	-	Bl.	15.62
Mentha piperita—dried tops in flower, <i>Germany</i>	-	-	-	Ma.	21.0
Mentha Pulegium—fresh flowering herb	-	-	-	Ra.	1.0
Myristica moschata—mace of commerce, finest	-	-	-	Vo.	154.0
Myristica moschata, do. fine	-	-	-	Bl.	125.0
Myristica moschata, do. worm-eaten	-	-	-	Bl.	65.6
Myristica moschata—nutmegs of commerce, fine	-	-	-	Bl.	108.25
Myristica moschata, do. worm-eaten	-	-	-	Bl.	64.1
Myrtus communis—fresh leaves, September 20, <i>Grasse</i>	-	-	-	Ra.	4.5
Myrtus communis—fresh leaves, September 6, <i>Paris</i>	-	-	-	Ra.	2.5
Origanum Majorana—fresh flowering herb, August 3, <i>Grasse</i>	-	-	-	Ra.	8.5
Origanum Majorana do. August 3, <i>Paris</i>	-	-	-	Ra.	4.4
Origanum vulgare do. September 15, <i>Paris</i>	-	-	-	Ra.	0.4
Pimpinella Anisum—dry fruit of French commerce	-	-	-	Ra.	35.12
Pimpinella Anisum—dry fruit, new, German commerce	-	-	-	Ma.	37.5
Pimpinella Anisum—dry fruit, old, do.	-	-	-	Ma.	27.0
Pimpinella Anisum—dry fruit, old, do.	-	-	-	Vo.	25.0





the seeds too much; this is peculiarly the case with linseed oil, which is seldom seen of a light color.

*By Decoction.*—This is effected by boiling the bruised seeds in water, and skimming off the oil as it rises to the surface. This plan is also employed in making cod-liver oil, as well as in the manufacture of castor oil in the West Indies.

*By Solution.*—This affords a very pure oil, but is seldom employed on account of expense. It is, however, useful in facilitating the extraction of some of the thick and viscous oils. Thus, croton oil is more readily obtained by mixing the ground seeds with half their weight of alcohol, and, after letting the mixture stand for some time, submitting it to pressure, and distilling off the spirit from the product.

Solution in ether is also useful in some cases, when expense is not an object; oil of ergot is best obtained in this manner.

The solid oils, as oil of cocoa, &c., require the aid of heat in their expression, and the ground material containing them is therefore placed between heated plates in the press.

*Animal Fats.*—Formerly, the fats of many animals were employed in pharmacy; but, at present, those principally used are lard, suet, and beef's marrow. To render these fit for pharmacutic purposes, the crude material is to be cut in small pieces, freed as much as possible from all extraneous substances, and placed in a boiler with water, and heated until it is fused; the heat is continued till the water has evaporated, and the fluid fat is then strained. These fats are best preserved by being run into glazed jars, and kept from the action of the air.

**ALKALOIDS.**—The vegetable alkaloids may be obtained by a variety of processes; but these invariably comprehend decomposition of the alkaloidal salt in the crude drug, either by the superior affinity of an alkali, earth, or alkaline carbonate, or by double decomposition with some compound salt whose base forms an insoluble salt with the acid in the drug. Active neutral principles—such as narcotin from opium, piperin from white pepper, picrotoxin from *cocculus indicus*, and elaterin from *elaterium*—may be obtained through the agency of such simple solvents as water, rectified spirit, and sulphuric ether, used singly or successively. But no alkaloid can be thus detached.

The solutions from which vegetable alkaloids are prepared are, in general, obtained best by the method of percolation, or displacement. Some experience is required to apply this process in all cases with success. But, when well performed, it is greatly superior in general to any other mode of extracting the active matters of vegetable drugs, in cases in which the liquid used is spirituous or ethereal; and it is often not less advantageous in the instance of water, as well as acidulous fluids. The precautions for applying it successfully has been considered under the head of tinctures.

**SPIRITS** are alcoholic solutions of volatile principles obtained by distillation.

When spirit is distilled with aromatic vegetables which contain volatile oil, the oil, for the most part, rises with the spirituous vapor, and condenses along with it in a state of solution. In some cases, the volatile oil rises with the vapor of strong spirit, so that alcohol may be employed for the purpose; and this is occasionally necessary for keeping the oil of the distilled spirit in solution. In other instances, the oil does not begin to pass over until watery vapor also passes in considerable proportion with the spirituous vapor; so that diluted alcohol is required for the process.

For most medicinal purposes, but especially the present, the menstruum should be made by diluting alcohol with water.

The best apparatus for preparing distilled spirits is that represented at page 118, fig. 115, Procter's edition of *Mohr and Redwood's Practical Pharmacy*. It has been proposed to prepare them by distillation in a vacuum-still; but many volatile oils will not rise with spirit-vapor at the low temperature at which spirit boils in a vacuum.

These preparations, like distilled waters, may be obtained either from crude vegetable substances, or from their volatile oils. They are seldom, however, of such fine aroma when prepared in the latter as in the former way, unless care be taken to employ those volatile oils only which have been recently as well as carefully distilled.

*Essences* differ from spirits in being volatile substances dissolved in alcohol; but this name is generally applied to solutions of the volatile oils.

TROCHES, OR LOZENGES, are small, dry, solid masses, consisting of powders incorporated with sugar and mucilage. Some writers include under this name *drops* and *pastes*, making the following distinction between them:—

*Lozenges*, when the principal basis is sugar, and when the ingredients are combined without the aid of heat.

*Drops*, when the principal basis is sugar, but when the ingredients are combined with the aid of heat.

*Pastes*, when the principal basis is principally a vegetable juice or pulp, and when the mixture is of a soft consistence.

Lozenges are much more employed in Europe than in this country as a mode of administering medicines. In making them, the sugar is employed in a powdered state; the more active ingredients added in powder, or in a liquid state; and the whole mixed into a paste by the addition of mucilage. The mucilage generally used is that of tragacanth, as being more tenacious than that of gum Arabic. After the ingredients are properly incorporated, the paste is rolled out into a uniform sheet on a marble slab, previously sprinkled with some powdered starch to prevent adhesion, and cut into small cakes by means of a punch. These cakes are then to be placed on sieves, and kept in a drying-room until they have become perfectly dry and hard, when they are to be sifted, and kept in well-closed bottles.

Drops are formed from coarsely-powdered sugar, to which the flavoring or medicinal ingredients are added in a liquid state, so as to moisten the sugar. The mixture is then melted in a proper vessel, over a clear fire, after which the melted mass should be allowed to drop in small portions on a marble slab or greased metallic plate, and, when cold, removed, and kept like lozenges.

Pastes are usually formed of inspissated vegetable juices, or decoctions, with the addition of sugar, gum, &c. These are to be brought to a proper consistence, and the mixture poured into flat, shallow moulds, or rolled out, as in the case of lozenges, and divided into pieces of the desired size.

INHALATIONS.—These have, at different times, been much in vogue as a means of combating disease, especially complaints of the respiratory organs. Within the last few years, much interest has been excited relative to this mode of administering medicinal agents, from the remarkable anæsthetic effects caused by the inhalation of the vapor of ether and chloroform. The simplest form of using either of these is by pouring the requisite quantity on a hollow sponge, and applying this over the mouth of the patient. Various forms of inhaling apparatus have been invented, which will be found described in *Mohr and Redwood's Pharmacy*, 535–9, with directions for their use.

## EXTERNAL REMEDIES.

BATHS.—By the term bath is meant the complete or partial immersion of the body in a fluid or gaseous medium, differing, in some circumstances, from that to which it has been accustomed. In order to obtain the full efficacy of a bath, without injurious consequences, its temperature should be regulated, and particularly prescribed, by the physician ordering it. The following temperatures are those given by Dr. Forbes in the *Cyclopædia of Practical Medicine*:—

Cold Bath	-	-	-	-	-	between 33° and 60° F.
Cool Bath	-	-	-	-	-	" 64° and 75° F.
Temperate Bath	-	-	-	-	-	" 75° and 85° F.
Tepid Bath	-	-	-	-	-	" 85° and 92° F.
Warm Bath	-	-	-	-	-	" 92° and 98° F.
Hot Bath	-	-	-	-	-	" 98° and 112° F.

The effects of these different baths on the system are very dissimilar, according to their temperature, and the time during which the patient is subjected to their influence.

**COLD BATH.**—When a person plunges into a cold bath, he is first sensible of a sudden sensation of cold upon the surface, accompanied by an oppression of breathing, causing this function to be performed in convulsive gasps. This is called the *shock*, and is caused by a rapid contraction of the cutaneous capillaries, and a retrocession of the blood to the lungs and other internal organs. In a short time, the difficulty of breathing disappears, the temperature becomes agreeable, and if the person now leaves the water, a warmth of the surface comes on, termed the *glow*, succeeded by a sense of invigoration of the whole system. Should the person remain in the water for too long a time, another train of symptoms manifest themselves: the sensation of cold soon attains to an unpleasant degree of chilliness, followed by rigors; a bluish tint is perceptible on the surface of the body; the blood accumulates in the internal organs; and, on leaving the water, there is no reaction, or a very feeble one, the surface remaining cold, the extremities benumbed; and headache, difficult respiration, often pain in the chest, ensue, with a sense of depression and lassitude. The use of proper means will often remove these symptoms; but they may lead to a variety of diseases of the internal organs.

The objects, in prescribing a cold bath, are the production of a sudden and powerful impression on the nervous system, and the tonic influence it exercises when followed by due reaction. In the first of these, it has been found useful in certain affections where there is a derangement of the functions of sensation, of motion or sensation unattended with a congestive or inflammatory condition of the internal organs; but it is more frequently ordered to fulfil the second indication.

It is always contra-indicated when, from debility, the system does not react so as to produce a glow; when there is a tendency to congestion of the cerebral vessels, or any serious organic affection of the heart, lungs, or kidneys. In all cases, it is advantageous, before taking the cold bath, to take such exercise as will raise the circulation, without occasioning fatigue or perspiration, for reaction is almost certain to follow the immersion, except when the person has remained in the water too long a time. The period of immersion should not exceed five minutes.

**COOL BATH.**—The action and uses of this are similar to the last, but are less powerful. It is, therefore, better calculated for those who are much debilitated.

**TEMPERATE BATH.**—As the temperate bath is of a temperature closely approaching that of the body, the shock and subsequent reaction are almost wanting. It is, therefore, much more employed for purposes of comfort and cleanliness than as a remedial agent. In delicate persons, it should always be used instead of the cold or cool bath, and is always better suited to very young children than lower temperatures.

**TEPID BATH.**—This is intermediate in operation between the temperate and the warm bath, and varies in effects and uses according to the temperature. In perfect health, it should not be used as an habitual indulgence; but, for the purposes of cleanliness, an occasional recurrence to it allows of a more perfect ablution than can be effected by cooler baths. It is better to use it about noon, when the first process of digestion of the morning meal is over, and immediately afterwards to take brisk exercise in the open air. In cases of fatigue and febrile irritation, from over-exertion or a long journey, the tepid bath is generally found very beneficial. It is also serviceable to persons of sedentary habits, &c. In all such cases, however, it is not to be employed immediately after a meal, or when the individual is unduly excited, either mentally or corporally. In one class of complaints, those dependent on gastric irritation, the tepid, or even the warm bath proves of much service.

**WARM BATH.**—The first effect of a warm bath is to produce a sensation of heat upon the surface, and to increase the pulse in quickness and fulness, though in most cases to diminish its tenseness. The cutaneous circulation more especially becomes affected,



and the body is increased in bulk, as shown by the increased pressure of ligatures, or of rings upon the fingers. The secondary effects, when the immersion is continued for some time, are muscular relaxation, sometimes to a considerable degree; even after leaving the bath, a disposition to lassitude continues for some time, with a tendency to perspiration.

The remedial effects of a warm bath depend on its temperature, the time a patient remains in it, and the subsequent treatment. The medium time for remaining in the bath is from twenty to twenty-five minutes; but this must be regulated by the effect produced. It is beneficial in incipient catarrh, in some congestions of the internal organs, chronic rheumatism, and in spasmodic affections, especially those of children; but is contra-indicated in active fever, or when there is congestion, or a determination of blood to the head.

In the convulsions of children, its effects are remarkably beneficial, as it not only relaxes spasm, and relieves for the moment, but soothes nervous irritation. In cases where the convulsions are severe, it will be found advantageous to apply cold water to the head. When a warm bath is administered to a child, care must be taken not to expose it to the cold air for the purpose of drying its body; the best plan is to envelop it in a warm blanket, and to place it in bed at once. By this plan, it is not liable to take cold, which is a common objection to the use of the warm bath for children.

**HOT BATH.**—From its temperature being above that of the body, the hot bath is far more stimulating than the preceding, as evinced by the excitement of the pulse, the sensations of fulness in the head and throbbing of the cerebral vessels. Its use is principally confined to cases where it is wished to arouse nervous energy and vital action, as in Asiatic cholera, &c.; or where there is a sudden retrocession of cutaneous diseases. It has also proved useful in certain forms of rheumatism, and paralysis. As the intention is mainly to induce excitement, the patient is not to be exposed to its action long enough to cause exhaustion.

Whatever description of bath is ordered to be used, the original temperature is to be maintained during the whole time the patient remains in the water. At the end of some minutes, therefore, the heat should be tested by a thermometer, and, if requisite, hot water added. The sensations of the bather are always a fallacious criterion.

**SHOWER BATH.**—This is a modification of the cold affusion, being attended with the same effects, but in a less degree. The short duration of it renders it less refrigerant than the cold bath, and causes the primary shock to be the most important part of the influence it exercises, which may be modified by increasing or diminishing the temperature of the water, or that of the height from which the fluid falls. It is used either cold or tepid. The former is most advantageous when the powers of the system are sufficient to cause a reaction, that results in a glow on the surface, soon after using the bath; but, where this is not the case, as in debilitated individuals, the temperature is to be increased. It is adapted for those cases where a powerful impression is wished to be made upon the nervous system, as in chorea, hysteria, &c., and is also of much benefit to persons subject to determination to the head. In such cases, it is found advantageous to make the patient stand in hot water at the time of taking the bath. The reaction following its use is much promoted by using friction to the surface. The improved and portable shower baths, now to be procured, obviate many of the objections to its use which formerly existed. For children, the best and most convenient apparatus that can be employed is one described by Dr. A. T. Thomson. (*Domestic Management of the Sick Room.*)

“It consists of a hollow vessel made of tin, with a perforated bottom. The body of the vessel is of a bell-shape, with a hollow tube rising from the top, and terminating in a broad perforated rim. When the bath is to be used, it must be sunk in a bucket of water, until it is completely submerged; the air is thus driven out of the bath, through the tube, and the bath filled with water. The thumb of an attendant is then to be placed on the opening in the centre of the rim, and the bath raised from the bucket of water. The pressure of air upon the holes in the bottom retains the

water in the bath; and, on raising the thumb from the upper orifice, the whole is rapidly discharged. In using it, the child must be placed in an empty tub, and the bath, being held over his head, is then to be discharged; and the child immediately afterwards dried, with friction. When salt water is used for this bath, the hair should be kept dry, by means of an oil skin cap."

**LOCAL BATHS.**—These are most frequently used warm. The most common are the *hip-bath* and *foot-bath*. They are principally employed as revulsives. The first has been found a valuable remedy in diseases of the womb, and in irritations of the pelvic organs. Where it is employed merely to soothe pain, the temperature should not exceed 80° to 90°, and the patient is to remain in it for some time; but when it is intended to excite the uterus to greater action, it should be as hot as can be borne by the patient, though the continuance in it should not exceed ten to fifteen minutes. The hot foot-bath should be of as high a temperature as can be borne, so as to redden the skin of the immersed parts effectually. The vessel used should be sufficiently deep to allow the legs to be immersed nearly to the knees. It is a valuable remedy in the early stages of catarrh, and local congestions of the head, chest, or abdomen; and in the dyspnea accompanying hypertrophy of the heart, it has often proved very beneficial. It may be rendered more stimulating by the addition of common salt, carbonate of potassa, or flour of mustard. In torpid states of the liver, a mixture of nitric and muriatic acids, in the proportion of about an ounce of each to every gallon of water, often proves highly useful.

**VAPOR BATH.**—This consists in either wholly enveloping the patient in the steam of hot water, or merely his body, or some of its parts. A much more elevated temperature can thus be borne than where the body is immersed in water, and its action is more confined to the skin; hence, although less stimulating, it is more diaphoretic than the hot bath. Where the vapor is inhaled, the heated surface being extended, it is more powerful in its effects. It has proved of great benefit where an active revulsion to the surface is indicated, and also in the treatment of cutaneous diseases. It can be applied with little trouble. All that is required is that the patient be seated on a chair with a vessel of hot water placed beside him, and the whole enveloped with a blanket, to be thrown over his head if the vapor is to be breathed, or pinned around his neck where this is not the case. The steam soon surrounds his body, and causes a copious perspiration; and, should it cease too soon to be evolved, its generation may be restored by dropping a heated brick or stone into the water. Where the vapor is not respired, it may be used of a higher temperature.

**WARM AIR BATH** is more stimulating than the vapor bath, producing—especially where the warm air is also breathed—general uneasiness, heat of skin, excitement of the pulse, until a general perspiration ensues. It is readily administered even to persons in bed. The bedclothes are to be elevated by a light frame, and the heated air admitted by means of a tube. It has been found beneficial in chronic rheumatism, and was at one time much praised in the collapsed stage of cholera.

**DOUCHES** consist in the forcible application of a stream of hot or cold water to a part of the body, in such a manner that the force of the stream of the fluid shall aid the stimulant effect. The hot douche may be formed by pouring from a height hot water from a tea-kettle, or through a tube about an inch and a half in diameter, so as to cause the fluid to strike forcibly upon the affected part of the body, whilst at the same time percussion is employed; or, in other words, the part is beaten by means of an Indian rubber bottle, stuffed with wool, and affixed to a cane handle.

A temperature of 160° is readily borne in douching. When the disease is chronic rheumatism, or when deep-seated pains are to be removed, the douching should be continued for either half or three-quarters of an hour at a time; and the patient should be afterwards placed in bed between blankets, in order to encourage sweat.

ing. The most decisive advantage, in enlarged, stiff, and painful joints, results from this mode of douching.

In cases of complicated fevers, and in some other diseases, in which inflammation of the brain occurs, the *cold douche* is frequently ordered. The mode of applying it consists in pouring a stream of cold water on the shaved head. The patient should be raised in bed, and the head held over a basin, or other vessel, whilst a stream of cold water is directed on the crown, and the fall of the water gradually increased. After this, the head should be merely dried, but not rubbed. It not only soothes the patient, but often induces sleep, although it usually causes a most uncomfortable feeling at first; but relief is so quickly experienced, that its repetition is generally requested by the invalid.

A *vapor douche* is very stimulating, and when of a high temperature, and continued for any time, will cause vesication. It may be used as a counter-irritant instead of moxa.

MEDICATED BATHS are such as contain medicinal agents in solution in the water, and are used both topically and generally. Saline, acid, and alkaline substances, with iodine and sulphur, are the materials most commonly employed. Medicated baths are sometimes natural, as those of sea water, and certain mineral springs; others consist of solutions of various articles, artificially prepared. Of the medicated baths, sea water is the most generally used, more, however, for pleasure, than for remedial purposes. It is not only stimulating, on account of its saline constituents, and its use followed by a perfect glow, but these constituents also exert a medicinal action on the system, in certain diseases of debility. The nitromuriatic bath has been found useful in diseases of the liver; and alkaline, ioduretted, and alkaline sulphuretted baths, are advantageously employed in many forms of cutaneous disease.

Medicated *vapor* baths are prepared by impregnating aqueous vapor with the volatile principles of medicinal plants, though it is very doubtful whether they produce any effects that cannot be obtained from the simple vapor bath. But the fumes of sulphur, chlorine, camphor, mercury, &c., in combination with aqueous vapor, have been found to exert powerful effects on the system, and to be very effectual in the cure of certain diseases.

AFFUSION.—This consists in pouring or dashing a quantity of water on the body, or a portion of the body, from an inconsiderable height, most generally for the purpose of reducing its temperature; but it is also employed as a revulsive agent, and to give an impulse to the nervous system. Affusions are made with cold or tepid water. Cold affusion is one of the most powerful general means of abstracting caloric from the body, we possess; it not only lessens the temperature of the surface, but it diminishes the action of the heart. It has been successfully employed in the treatment of fevers, but its use requires much judgment, as respects the time of its application, which, according to Currie and others, is, “when there is no sense of chilliness present, when the heat of the skin is steadily above what is natural, and when there is no general or profuse perspiration.” It should not be employed either in the cold or sweating stage of fever, or in the hot stage where the heat does not much exceed the natural standard. From inattention to these circumstances, and from patients being injured by its effects, affusion is not at present often resorted to in the treatment of fevers. In scarlatina and some other of the exanthemata, it has been employed with benefit, to reduce the morbid heat of skin. It is, however, more relied upon in inflammatory diseases of the brain; in these cases, the water is to be poured upon the head, inclined over a basin or tub, by means of a piteher. In children, it is sufficient to squeeze a large sponge, previously saturated with cold water, at some height above the head. Where a general affusion is deemed necessary, the patient should be taken out of bed, his head having been previously shaved; and, being stripped naked, and placed on a stool in an empty tub, from three to five gallons of water, at a temperature not under 40° Fahr., should be thrown over him. This affusion should be repeated until he feels cold, or rather until a rigor or shivering, or even chattering of the teeth, is



experienced. He should then be dried, placed in bed, and a little warm wine and water administered to him, to aid the reaction and the consequent perspiration.

But in cases where the invalid faints on raising him into the erect position; where he feels chilly, although the thermometer indicates a high febrile temperature; where the skin is bedewed with perspiration; where the patient is a woman, and the monthly change is present; or where the operation is dreaded, it ought not to be employed. The evening is the best time for using the cold affusion.

Cool affusion is sometimes used instead of the cold, and is preferable for weak, irritable individuals. Tepid affusion is also beneficial in certain cases; especially where there is a fear that perfect reaction will not take place after the application of cold water; or where disease of the pulmonary organs exists. It has been found very efficacious in scarlatina, as also in hectic fever. Warm affusion has likewise been used; but its effects are far more temporary than those of the warm bath.

**SPONGING.**—The object of sponging the body, either with cold or with tepid water, is to reduce the heat of the surface by means of evaporation, with the view of softening the pulse and diminishing its frequency; of rendering the skin perspirable; of relieving headache, checking delirium, and promoting sleep. In order to perform it well, the patient should be taken out of bed; and, being undressed and placed in a chair, two or three persons should, at the same time, pass large sponges, wet with simple cold or tepid water, or vinegar and water, rapidly over different portions of the naked body, until the whole of it shall have been successively sponged, and a chill has come over the patient, who is then to be dried and placed in bed.

This appears to be a simple process; but it requires both caution and judgment to determine on its use, and to render it not only salutary, but free from danger. For example, if, notwithstanding the continuance of great heat and dryness of the skin, a sensation of chilliness comes over the patient when the sponging is about to be done, the operation should be delayed; neither should it be done if the smallest tendency to perspiration, indicated by moisture in the axillæ, or on the palms of the hands, displays itself. But, if it has been done, and if partial relief has been obtained, if the heat of the skin returns, and the pulse rises, it may again be resorted to and repeated.

But, besides the advantages to be obtained from *sponging*, during the presence of disease, it is also productive of great benefit in warding off diseases, or in a prophylactic point of view. The sponging, however, under such circumstances, is to be performed in a different manner from that which has been described.

In those predisposed to asthma and to bronchitis, known in ordinary language by the term *cold*, or *cough*, and in those, also, who are predisposed to *croup*, nothing is so serviceable in warding off the paroxysm of the former disease, or in preventing the attack of the latter malady, as cold and tepid sponging of the chest and the trunk of the body. It is also equally serviceable during dentition in infants, and as a general tonic in delicate conditions of the habit. In these cases, it should be followed by gentle friction over the surface of the body.

Sponging the body, as a prophylactic, or as a tonic, is always most efficacious when it is performed whilst the patient is still in bed. Let him sit up; or, if unable to do so, let him be raised into the sitting position, keeping the lower limbs under the bed-clothes. The night-shirt or night-dress is then to be stripped down, and a large towel or sheet put round the waist, to prevent the bed-clothes from being wetted. The naked trunk of the body, and the upper part of the arms, are then to be moistened with a sponge, or a piece of flannel, dipped either in cold or tepid water, or vinegar and water, or salt water, as the case may demand; after which, in drying the skin, if water only has been used, brisk friction should be employed, so as to cause a general glow upon the surface. In some cases, salt and water, or vinegar and water, are preferable to the simple water. The best proportions are two ounces of *salt*, or the same quantity of common *vinegar*, to a pint of water. When these adjuncts are used, friction is not required; indeed, when salt water is employed, the skin should be dried with a soft, old towel, fitted to soak up the water only, and to leave the saline particles upon the surface.

The best time for using such spongings is just before getting out of bed in the

morning. They may be used in winter as well as in summer. In efficacy, they are certainly nearly equal to the shower-bath, which may be resorted to in vigorous habits; but, when the habit is delicate, and not equal to the reaction, on which the beneficial influence of the shower-bath rests, sponging is preferable. It should not be used when perspiration is present.

Sponging is as beneficial as the shower-bath, in rendering the habit less susceptible of cold; and, when conjoined with exercise in the open air, and proper regimen, not only asthma, coughs, and catarrhs, may be warded off by its employment, but the predisposition to tubercular consumption may be lessened, in a very remarkable degree, by its daily employment.

**FOMENTATIONS.**—These may be regarded as a species of local bathing. Although the decoctions usually employed are useful in aiding warmth, by their soothing or sedative influence, yet they are secondary objects in the application of fomentations, the intention being to convey heat, combined with moisture, to the part fomented. Flannel cloths, wrung out of boiling water, by means of two sticks turned in opposite directions, form the best fomentations. If they be shaken up, and laid lightly over the part, they involve a considerable quantity of air, which, being a bad conductor, retains the heat in them for a considerable time. In every process of fomenting, there should be two flannels, each three yards long, with the ends sewed together, to admit of the boiling water being wrung out of them; and the one flannel should be got ready whilst the other is applied. The fineness or the coarseness of the flannel is not a matter of indifference: the coarser it is, the less readily does it conduct heat, and the longer it retains its warmth; therefore, it is more efficient for fomenting. White flannel also retains the heat longer than colored flannel.

*Stuping* is a variety of fomentation useful in many cases, but especially in affections of the eyes. The patient should be his own operator. He should sit up in bed, and should place, in the hollow of his hand, a small piece of flannel, wrung out of boiling water, and hold the hand at such a distance under the eyes that the vapors may rise to them—changing the flannel as often as it ceases to give out warm vapor. If narcotic or sedative additions are directed, they should be poured hot upon the flannel, each time it is changed.

**CATAPLASMS, or POULTICES,** are modifications of fomentations; they generally consist of pulpy substances capable of absorbing much moisture, and of such consistence as to be applied accurately to any surface, however irregular. Their action, in most cases, depends upon the liquids with which they are moistened and the heat retained by the mass. Cataplasms may be emollient, medicated, or revulsive.

*Emollient Cataplasms* are usually made of bread and water, linseed meal, Indian meal, slippery elm, &c., and water; or of mashed vegetable substances, such as carrots, and marshmallows.

As warmth and moisture are the principal effects of emollient poultices, an excellent substitute for them is lint, dipped in warm water, and laid over the diseased part; the lint should be covered with a towel, in order to prevent evaporation. This mode is much neater and more cleanly than any poultice, and where merely warmth and moisture are required, it will answer all the purposes intended. A peculiar fabric, called *spongio-piline*, consisting principally of sponge, has lately been invented in England, which is said to answer very well, when properly imbued with hot water, as a substitute for the simple emollient poultice.

The addition of a little lard is useful, if the poultice does not require to be frequently changed. When the object, however, is to promote suppuration, the poultice should be frequently renewed, in which case the addition of the lard is unnecessary.

Poultices should never be heavy, nor very bulky, but they should be frequently repeated. They are useful, in all cases of inflammation which cannot be backed, to assist the suppurative process and the advancement of the matter to the surface. After an abscess is opened, the poultices should still be continued for a few days. Poultices may be used, also, as fomentations in colic, and in inflammation of the

bowels. In such cases, however, as the chief object is to allay pain and to soothe, they should be made with a decoction of poppy-heads, instead of water.

*Medicated Cataplasms* are those in which to the simple emollient poultice are added other ingredients, intended to exercise an influence on the part independent of mere warmth and moisture; as, for instance, the fermented poultice, in which yeast forms a constituent; the chareoal poultice, and various others enumerated in the Formulary, all intended to fulfil certain indications.

*Revulsive Cataplasms* are those which, by inducing a local irritation or inflammation of the parts to which they are applied, act as derivatives. To this class belong mustard poultices, or *Sinapisms*, Cayenne pepper, garlic poultices, &c.

Mustard poultices are made by mixing the flour of mustard, of the shops, with water, into the consistence of a paste. When it is wished to have a weaker preparation, wheaten, rye, or linseed flour is to be added to the mustard in such proportions as are deemed sufficient. The water used should be tepid, or merely warm; a boiling temperature is injurious, as it tends to coagulate the albumen of the mustard, and thus to prevent the extrication of the volatile oil, which is the active principle. Vinegar is often used, but never increases the energy of the preparation, and, in the case of the black mustard, diminishes its power. This poultice should be spread thickly on a rag, as soon as it is prepared, and covered with gauze or tissue paper, in order to prevent adhesion to the skin. In a few minutes after it is applied, the sinapism causes a sensation of heat, which increases to almost intolerable burning. After some time, the pain subsides, and is followed by a sense of weight and throbbing of the arteries. If the sinapism be left on, however, the burning pain again returns, and becomes so great, that few persons can bear the action of a mustard cataplasm longer than three quarters of an hour.

In delicate, sensitive people, the sinapism need not remain applied above six or eight minutes, as the effect continues some time after its removal. If it remain too long on, gangrene may supervene; this cannot happen unless the invalid be insensible, as too much pain is felt to permit the lengthened application of a sinapism; but, in cases of stupor or insensibility, or in low fevers, a sinapism, if left on longer than an hour, may cause both vesication and gangrene. If the redness only is required, the pain may be moderated by mixing with the paste a drachm of tincture of opium, or two drachms of tincture of henbane, neither of which, although they allay the pain, diminishes the rubefacient activity of the sinapism.

As a substitute for the mustard poultice, where mere external irritation is required, the capsicum or red pepper will answer admirably, and it has the advantage of not vesicating: it may be used as a poultice, by mixing the powder with bread and milk, or Indian meal, or as a lotion mixed with warm spirits.

**LOTIONS, LINIMENTS, EMBROCATIONS**, are medicines of a more or less fluid character, which are employed as external applications. They may be used as mere fomentations to soothe pain and remove inflammation, as a mode of introducing medicinal substances into the system, or as revulsive agents, according to their nature and composition. Liniments, which generally contain oily constituents, are usually aided by friction of the part to which they are applied, either with the hand alone, or with some article capable of exciting some irritation of the skin, as a piece of flannel or a soft flesh brush. In many cases, in which liniments are found beneficial, the advantage obtained from them is attributable rather to the friction than to any medicinal power in the lotion itself.

*Frictions*, whether simple or conjoined with liniments, are frequently important aids to medical treatment. Simple friction is performed by the hand alone, or with a piece of flannel, a hair glove, or a flesh brush. If it be properly performed—namely, by short, brisk strokes with the tip of the fingers, and with great celerity, when the naked hand is the agent; and if it be continued for an hour or upwards, and repeated several times a-day—its influence in reducing swelled glands and swellings of the joints, as well as in alleviating rheumatic pains, is very great; but, besides being well performed, the friction should be continued for half an hour, in order to render it useful.



Friction, when performed in a gentle, slow, and equable manner, by producing a continued repetition of an agreeable impression on the nervous system, acts as a soother of pain, independent of any aid from opiate liniments, and also induces sleep. The beneficial influence depends, in a great measure, on its transferring the attention of the sufferer from the seat of pain, and confining it to the mild and agreeable sensation impressed by the friction. In performing it, the operator should sit by the side of the bed, and, introducing the hand under the bed-clothes, rub the legs or the arms gently, with equally lengthened but slow movements. When the invalid is a child, its influence is more powerful when aided by a monotonous, but a soft tune, which, although it operates upon a distinct sense, yet, by combination, renders the friction more soporific.

When friction is intended to stimulate the surface, it is necessary to aid its influence by liniments containing ammonia, or camphor, or some other excitant or aerid substance: but these should be ordered by the medical attendant. In applying them, the same method should be adopted as when simple friction is employed; but the hand of the operator must be guarded by a glove from the influence of the acrimony of the liniment.

Friction is also used to introduce various substances—namely, mercurials, iodine, opium, &c.—into the body through the medium of the skin. The rubbing, in such cases, ought to be brisk, and applied with sufficient force to abrade slightly the cuticle; and continued until the substance, which is usually in the form of an ointment, disappears, owing to the absorption by the skin induced by the friction. In using such frictions, the hand of the operator should be guarded by a glove; otherwise, he is likely to suffer salivation, or some other unpleasant result, from the introduction of the medicinal agent into his own system.

VESICATORIES, or BLISTERS, have already been noticed in the introduction (p. 58), and do not require to be further commented upon.

ISSUES are small ulcers artificially established for the purpose of procuring and keeping up a discharge of pus. They form an important derivative remedy in many diseases, and are to be formed by the following methods: The simplest is by the application of a small blister, which is to be dressed with some epispastic or irritating ointment. It is, however, difficult to prevent the sore from healing, and the discharge is seldom sufficiently copious. They are also formed by making incisions through the skin, and inserting issue peas into the wound. The best and most effectual plan is by the use of caustic; this is done by means of a piece of leather, spread with adhesive plaster, through which a hole is made of the size of the intended issue; this is to be warmed and applied to the skin, so as to apply closely. The aperture is then to be filled with the caustic, in the form of a paste, and covered with another piece of leather, spread as above. These are to be left on until the skin is destroyed, and then to be removed and a poultice applied until the eschar separates. The late Dr. Wistar was in the habit of recommending the application of a small blister, and of rubbing the vesicated surface with caustic potassa for a few minutes. This is an expeditious and excellent method, as it is effectual and gives but little pain. The issue is kept open either by the introduction of peas, or a piece of lint smeared with the ointment of savine, into the wound. The peas operate by mechanical irritation; and, as they swell from the action of the heat and the moisture of the ulcer, they tend also to enlarge the wound. The peas should be changed at least once in twenty-four hours. Instead of the peas, it has been advised to use a small block of hard wood, with the lower surface cut into lozenges; these, pressing on the surface of the sore, occasion a copious discharge, and it will be found more convenient of application than peas. The very irritation, however, by which the discharge is maintained, is apt to cause fungous growths from the bottom of the wound, which should be kept down; this is to be done by dressing the issue occasionally with some escharotic, as burnt alum or red precipitate. Issues should be washed twice a-day with warm water; otherwise, they are apt to become very offensive.

SETONS are wounds kept in a suppurating state by means of some foreign body, which prevents their healing. They are made by passing a seton needle, armed with a skein of silk, thread, or a slip of gum elastic, through a folded portion of the skin, withdrawing the needle and leaving the silk in the wound. If a seton needle cannot be procured, the puncture may be made with a thumb-lancet or bistoury, and the silk passed through the wound by means of an eyed probe. The edges of the wound are apt, however, after it has been discharging for some length of time, to become callous, and the discharge to cease. When this occurs, the irritating substance should be smeared with some stimulating ointment. It should be recollected that much mischief may result from suddenly suppressing or removing either an issue or a seton. If this takes place, purgatives should be administered, and the discharge of the issue or the seton checked as gradually as possible.

OINTMENTS are simple or compound fatty bodies of a soft consistence, which are applied to the skin by inunction. They are more consistent than liniments, but softer than cerates. Simple ointment consists of one part of wax and four of lard, melted together and thoroughly mixed. This preparation is the basis of many compound ointments. Compound ointments are of three kinds: one consisting of simple ointment, combined mechanically with various substances; the second, formed by dissolving the active ingredients in melted ointment or lard; the third, made by uniting substances to the fatty matters that induce a chemical action between them.

Compound ointments of the first class are mixtures of the fatty basis with various solid and liquid substances; these are incorporated by trituration in a mortar, or on a stone slab. When hard substances enter into the combination, they require to be previously reduced to a fine powder, or, if they are soluble, to be rubbed into a paste with an appropriate menstruum, and then admixed. When extracts form constituents of an ointment, if they are not of a soft consistence, they should be rendered so by trituration with water before they are mixed with the fatty body. The mixture of two or more ointments may be effected by rubbing them together on a stone slab by means of a spatula.

Compound ointments of the second kind are made by boiling recent vegetable substances in the fatty basis, until all the water of vegetation is driven off; the heat should then be reduced to about that of boiling water, when the ointment is to be strained. Those of the third kind, as citrine ointment, are prepared by adding the constituents gradually together, aided by heat and constantly stirring.

Ointments are preserved by keeping them in glazed jars, with the surface covered with tin foil. According to M. Deschamps, the admixture of a twenty-fifth part of benzoin with the fatty matter used to make the ointment, will prevent or greatly retard the process of decomposition (see p. 128). In the case of simple ointment, and those for highly irritable surfaces, this plan answers well; where it is inexpedient, the ointments should be renewed at short intervals.

CERATES consist of a basis of wax and a fatty matter, with which other substances are incorporated. They are of such a consistence as to be softened, but not melted, by the warmth of the body. The general directions for making them are similar to those for ointments.

Many preparations of the present class are made by simply mixing or triturating their component parts together. But when resins, wax, spermaceti, or concrete oils are to be mixed either together or with fluid oils, it is better to unite them with the aid of heat, which not only liquefies the solids, but likewise renders them much more soluble in the liquids. Brisk agitation is required while the mixture concretes on cooling; otherwise, the solid ingredients will separate either mechanically or by crystallization. Even in purifying lard or suet by fusion and filtration, it is right to stir the mass as it cools; otherwise, the stearin or solid oil is apt to separate in part from the elain or liquid oil, so that an irregular mixture of the two principles is obtained. A gentle heat is sufficient for making ointments, cerates, and the like, because most of the ingredients are easily fusible; and a strong heat must be avoided, for in that case acrid acids are engendered, which may alter the properties of the preparation. Hence

the vapor-bath is generally used for applying heat; and it ought always to be employed in operations on a large scale.

When the cerate is intended to irritate and not to soothe, a high temperature may be employed, which, in some cases, is advantageous, as in the cerate of cantharides, by more effectually dissolving out the active principle.

PLASTERS are more consistent than cerates, adhesive at the temperature of the body, and requiring the aid of heat to soften them sufficiently to be spread. They are of two kinds: one consisting of a compound of olive oil and litharge, or an oleo-margarate of lead, having the common lead plaster as a basis, united to resinous or other substances; the other, composed wholly of resinous matters, or these mixed with fatty substances or wax.

In making plasters, in most cases, it is necessary to operate at a temperature that will not volatilize or carbonize the ingredients; hence, a water-bath or steam heat is preferred. In the case of the burnt plaster (*onguent de la mere*) of the French Codex, sufficient heat is employed to cause the fats to fume. Plasters should be made in metallic vessels, much larger than will contain the substances to be operated upon, as the mass increases in bulk by the action of heat causing an extrication of vapors. The water ordered in making lead plaster should be added at the commencement of the process; otherwise, when poured on the melted mass, it may cause a projection of portions of the heated materials on the operator. The ingredients should be thoroughly stirred together during the process of melting. When this operation is concluded, the plaster is to be removed, in small portions at a time, into a vessel constantly supplied with cold water; and, when sufficiently consistent, rolled into cylinders on a wet marble, and again placed in cold water to harden. To render plasters of a lighter color, they are kneaded and pulled under water; but this process should not be practiced on compound plasters containing substances soluble in water; nor should these plasters be cooled in water, but suffered to chill on a marble slab until fit to be made into rolls. Some of the officinal plasters belong to the second class, and are made by melting resinous matters with the addition of certain oleaginous substances.

Plasters are preserved by enveloping the rolls with paper, to exclude the air as much as possible. When kept for any length of time, they are apt to become hard and brittle, and to lose their color. When this is the case, they should be re-melted by a gentle heat, and sufficient oil added to restore their proper consistence.

Spreading plasters for use, requires skill and address on the part of the operator. They are spread on various textures, but most generally on linen or cotton cloth, or leather. The shape and size must be regulated by the part to which they are to be applied. The plaster is to be spread on the leather or cloth by means of a heated spatula of a peculiar form; this is brought in contact with the end of a roll, which, becoming liquefied, can then be evenly diffused over the surface. Where the plaster is sufficiently adhesive to maintain its place when applied to the body, it is to be spread so as to leave about half an inch of margin uncovered; but where it does not possess this quality in sufficient degree, it should be surrounded with an adhesive margin, which is to be prepared before spreading the body of the plaster. Full and particular directions for spreading plasters will be found in Procter's edition of *Mohr and Redwood*, p. 516, *et seq.*, and to which we would refer those who wish for clear and accurate directions on the subject.

FUMIGATIONS are extrications of vapors or gases, designed to modify the air of a sick chamber, and to mask any unpleasant odors that may be present, or to produce a medicinal effect on those parts of the body with which they are brought in contact.

Fumigations, for the purpose of obviating or masking unpleasant odors in a sick room, should never be employed to supersede ventilation and cleanliness; for most of them, instead of purifying the air, only render it more unfit for respiration. They are generally made by burning pastilles, sugar, juniper berries, benzoin, &c., so as to create an odoriferous smoke. As disinfecting agents, they are utterly useless; and are relics of an ancient custom of burning frankincense, and other odorous substances in vitiated air, to overcome the fetor which is more or less present. They disguise unpleasant



odors; but they accomplish nothing more. The infection remains not only unaltered by the diffusion of the most powerful aromatic vapors, but its deleterious properties are sometimes augmented by them.

The fumes of burning camphor, and the vapors arising from its tincture, have more pretensions than either of the above to the name of a useful article of fumigation. It is much employed and confided in on the Continent; but the experience both of American and British physicians does not warrant the opinion that it possesses any power of destroying infection or contagion. Nothing is more ridiculous than the custom, which was at one time very general, and which is still continued to a certain extent—namely, that of carrying a camphor-bag about the person, as a protection against infectious diseases.

Vinegar is, not without reason, regarded as possessing some chemical influence in decomposing infectious and contagious matters; and, consequently, it is almost invariably sprinkled over the floor of the rooms of those suffering under infectious diseases; or the vapor of hot vinegar is diffused through their apartments. It is thought to be still more salubrious, and a more powerful disinfectant, when it holds camphor or aromatic oils in solution; hence the great popularity of the preparations called *Aromatic Vinegar* and *Thieves' Vinegar* (see p. 68). The repute of the latter is founded upon a story, that four thieves, who plundered the dead bodies during the plague at Marseilles, with perfect security, on being questioned respecting the cause of this impunity, confessed, on the condition of their lives being spared, that they attributed it solely to the use of *Aromatic Vinegar*.

Vinegar, in this state of combination, is extremely agreeable and refreshing, both to the invalid and the attendants of the sick room. The benefit which it produces depends upon a certain degree of stimulus imparted to the sensitive nerves, which are generally in a low condition in an infectious atmosphere; but, as a chemical agent, its powers are too feeble to be followed by much benefit. It is, however, always refreshing, and is much better adapted for overpowering the unpleasant odors of the sick room than any of the former substances.

The most efficacious fumigations that can be employed, are those of chlorine. This disinfecting gas is extricated from a mixture of common salt, black oxide of manganese, and sulphuric acid (see p. 158). Instead of chlorine disengaged in this mode, it is more common to use the chloride of lime, the chloride of soda, or the chloride of zinc; solutions of either of these, placed in shallow vessels in a room, will give off chlorine in a gradual manner, by a decomposition of their constituents. Some difference of opinion exists as to the mode in which this gas acts. Dr. A. T. Thomson is of opinion that it operates by decomposing the infected air:—

“With regard to the mode in which chlorine operates, the most probable opinion is, that it decomposes the infectious matter, which is a compound. One principle of this compound seems to be hydrogen; another, ammonia; and a third, a fetid volatile oil; besides the unknown matter of infection. The chlorine unites with the hydrogen, and forms hydrochloric acid, which combines with the second component of the infectious medium—namely, ammonia—and forms sal ammoniac; the withdrawing of both of which from the air causes the precipitation of the volatile oil; whilst the chlorine also neutralizes the real matter of infection, whatever it may be; and thus the vitiated atmosphere is purified.”

Although chlorine is capable of destroying fetid and unpleasant odors in the sick room, it is liable to many objections. However extricated, it is apt to create irritation of the respiratory organs and coughing when respired; it corrodes all metallic substances, and must, therefore, be used with caution; from the chlorides evolving the gas more slowly, they are, in most cases, preferable to the immediate extrication of chlorine from the salt and manganese.

Other acid fumigations have also been found useful as disinfectants; as those of nitrous acid, so highly recommended by Smith and Carmichael, and considered by Christison even as superior to chlorine. Sulphurous acid fumes, produced by burning sulphur, have likewise been recommended. Both are capable of destroying unpleasant odors and emanations; but the same objections apply against their use in a sick

chamber—that of causing much irritation of the organs of respiration; hence they are unfitted to cases where there is any disease or weakness of these parts.

Fumigations, used as medicinal agents, are much more prescribed on the Continent of Europe than in Great Britain or the United States. They are sometimes employed as inhalations—as emollient vapors in the treatment of bronchial affections; balsamic vapors in affections of the chest. They are also used externally, as the fumes of benzoin in rheumatic and gouty complaints; those of aloes in deficient menstruation; those of sulphur and mercury in various diseases of the skin.

The effects of fumigations vary according to the temperature at which the vapors are used; when it is high, and the whole body of the patient is exposed to it, it produces much the same train of symptoms as those caused by a vapor-bath. When the fumigation is made with substances which give off no watery vapors, the phenomena that result are analogous to those of a heated air-bath, but more marked, especially those which occur in the skin and subcutaneous tissue.

### BLOOD-LETTING.

Various methods are practiced for this purpose. General bleeding is performed by opening a vein, called venesection; or by puncturing an artery, which has received the name of arteriotomy. Topical blood-letting is practiced by opening the small vessels of a part by means of slight incisions, or what is called scarification, by the application of leeches, and by cupping.

GENERAL BLOOD-LETTING.—*Venesection* is one of the most frequently employed of the different modes of detracting blood. It is usually practiced on one of the veins of the arm. A band or ligature is to be applied around the arm above the point at which the vein is to be opened, so as to obstruct the passage of the blood to the heart; this causes an enlargement and turgidity of the vessel below the ligature. This bandage should never be applied so tightly as to prevent the passage of blood in the arteries of the part. The vein is to be opened by means of a common or thumb lancet, or a spring lancet. In using the first, the vein is to be kept from rolling by means of the thumb of the left hand placed a small distance below where the puncture is to be made; but care should be taken not to alter the relative position of the skin and vein, because in resuming their position after the lancet is inserted, the aperture through the skin will no longer correspond with that in the vein, in consequence of which a thrombus or ecchymosis will form—a very common accident in venesection. The lancet is to be pushed into the vein, and when its point is within the cavity of the vessel, it is to be carried forward a little, so as to enlarge sufficiently the opening. The arm is to be kept extended after the operation until the necessary quantity of blood is taken. If the blood should not flow as freely as is desired, the patient should exert the muscles of the arm by grasping a stick, or moving the fingers.

The spring-lancet is much used in some parts of the United States, and is almost universally employed in Philadelphia. This has arisen, in great measure, from its being preferred to the common lancet by Dr. Physick as well as by Dr. Dorsey, whose reasons for this preference are thus given in his “Elements of Surgery.”

“In a country, situated like the United States, where every surgeon, except those residing in the large cities, is compelled to be his own cutler, at least so far as to keep his instruments in order, the spring-lancet has a decided preference over the lancet; the blade of this can with great ease be sharpened by any man of common dexterity, and if not very keen, it does no mischief, whereas a dull lancet is a most dangerous instrument; and no one can calculate with certainty the depth to which it will enter: to sharpen a lancet, is regarded by the cutler as one of his nicest and most difficult jobs; it is one to which few surgeons are competent.

“The *safety* of using the fleam is demonstrated by daily experience; there is no country in which venesection is more frequently performed than in the United States, and, *perhaps, none where fewer accidents from the operation have occurred*; of these few, I beg leave to state that all the aneurisms produced by bleeding, which I have

seen, have been in cases where the lancet was used. I have since, however, met with an exception to this statement. I have seen the brachial artery opened by a spring-lancet, but it was by an old barber, half blind, and very clumsy."

"The manner of using the spring-lancet differs in nothing from the operation with the common lancet, excepting that the surgeon must place the instrument in such a situation over the vein that, when the spring is touched, the orifice into the vein will have a proper size and direction. Dexterity in this is very readily and speedily acquired. In point of *facility* in its use, it has a great advantage over the lancet.

"Among the advantages of the spring-lancet, *economy* is not the least. A country practitioner who is constantly employing the English lancets, and who is particular in using none but the best, must necessarily consume half the emolument derived from the operation in the purchase of his instruments. One spring-lancet, with an occasional new blade, will serve him all his life."

After a sufficient quantity of blood has been drawn, the flow is to be stopped by removing the ligature and placing a finger on the orifice, when any blood that has soiled the arm is to be wiped off, and the edges of the orifice carefully brought together, that they may unite by the first intention. To accomplish this, let the bleeder with the thumb of that hand which holds the arm push the skin towards the orifice, while he draws it on the other side to the same point with the compress; thus the skin will be thrown into folds at the wound, over which he is immediately to apply the compress, which should be broad to keep the skin better together, and thick to make the compression more certain.

When blood-letting is ordered, everything required for the operation should be at hand. The ligature for tying the arm, so as to obstruct the flow of blood in the veins below it, should be a soft old ribbon; and the same may be employed for securing the pledget over the orifice, when the flow of the blood is to be stopped. The pledget, or compress, should be a piece of linen, folded into a square form, about an inch in diameter, and comprehending three or four thicknesses of the material. It is always proper to use a graduated basin for receiving the blood, that the exact quantity drawn may be ascertained. If the invalid be bled in bed, he should sit erect; if he be up, he should be placed erect in a chair. When the operator is dexterous, there is little or no necessity for guarding either the bed or the clothes of the patient from the blood; as the pressure of the thumb of the operator, placed below the point where the vein is to be punctured, should not be relaxed until the utensil for receiving the blood be conveniently placed for that purpose. A basin with a little tepid water, and a clean, soft towel, should be ready for washing and drying the arm, before the compresses and the bandage for preventing the further escape of the blood be applied.

When a nurse or an attendant is not fully instructed in her duty, there is always considerable anxiety displayed to provide smelling salts and other means to obviate fainting. But, in many cases, much of the benefit of blood-letting depends on the fainting which it causes; and the propriety of checking that effect should be left entirely to the physician. No person should be present at this operation, nor should any one attempt to hold the basin for receiving the blood who is liable to become sick or faint at the sight of blood.

The arm should not be used for some hours after a vein has been opened in it; but, if everything has gone on well, the bandage may be removed at the end of two days. When this has been applied too tightly, the forearm and hand are apt to swell and become painful, in which case the bandage is to be loosened. If, on removing the bandage, it is found that the orifice, instead of being closed, presents an inflamed appearance, with its lips swelled and red, the arm is to be kept perfectly quiet, the edges of the wound brought in contact, and some cool application made to the part, to relieve the inflammation. In those cases where the inflammation extends beyond the orifice, and assumes an erysipelatous appearance, with a hard and painful tumor around the wound, a compress is to be applied upon the vein at the inflamed part, to make the two sides adhere together; if they do not adhere, simple contact will still be sufficient to prevent suppuration in this part; or, if inflammation has gone so far as to make the surgeon suspect that suppuration has taken place,



then the compress must be put upon that part of the vein just above the suppuration.

The remedy for inflammation of the veins consequent on venesection, which answers best, is the application of a blister over the inflamed part. As soon as the inflammation commences, a small plaster of simple cerate, spread on linen, should be applied on the orifice, and over this, a blister large enough to cover the whole inflamed part, extending three or four inches from the orifice in every direction. This remedy was first proposed, and made use of, by Dr. Physick, and has been employed by many physicians with great success, even after extensive inflammation of the vein has taken place.

Sometimes it becomes expedient to open the external jugular vein. To do this, the head should be laid on one side, and the vein compressed by the operator's thumb near the clavicle, and the opening made in that part of the vein which lies over the sternocleidomastoid muscle. The blood soon ceases to escape after the pressure is removed, but a small strip of adhesive plaster is sometimes necessary.

In children, especially where they are very fat, a vein in the leg or foot can often be found, especially about or above the malleolus, when none are perceptible in the arm. To promote their distension, and to increase the bleeding when they are opened, it is found useful to immerse the limb in warm water.

In bleeding young children from the arm, when they are restless and fretful, it is a good plan to attach the child's arm to the left forearm of the operator, by means of ligatures at the wrist and centre of the arm; by this means, complete control is obtained over the motion of the child's arm, and the venesection can be accomplished with comparative ease.

**ARTERIOTOMY** is the opening of an artery to detract blood. It is much more limited than venesection in its application, being practiced only upon the temporal and posterior auricular arteries; and, in most cases, is restricted to the former only. In this, the anterior branch is preferred, where it passes above the exterior angle of the eyebrow. In performing the operation, the vessel is to be partially divided transversely, and not longitudinally. When as much blood has been drawn as is deemed necessary, the incision is to be deepened so as to divide the artery entirely. On the consequent retraction of the cut extremities, the bleeding will generally cease; if it should not, a graduated compress, maintained in place by a bandage around the head, is to be applied.

**TOPICAL BLOOD-LETTING.**—This consists of the abstraction of blood by cupping, leeching, or scarification.

*Cupping* is performed in the following manner: The skin being softened by means of a sponge and warm water, a small bell-like glass, known as a cupping-glass, having the air contained in it rarefied by being passed over the flame of a lamp, or by other means, is immediately applied to the part, all hair and other extraneous substances being previously removed; from the formation of a vacuum beneath the cup, the pressure of the air on the surrounding surface causes that portion included in the cup to swell, and the vessels to become turgid. When this has taken place, the cup is removed and several incisions made by means of a scarificator, an instrument containing numerous lancets, which, by means of a spring, can make a corresponding number of incisions at the same moment; the depth of these incisions can be regulated by means of a screw which protrudes or withdraws the lancet, according to the vascularity of the part, the quantity of blood to be drawn, &c. When a sufficient quantity of blood has collected in the cup, it is to be removed by introducing the nail of one of the fingers under the edge, by which means, air being allowed to enter, the cup becomes detached. The part being washed with warm water to remove any clots of blood, the cup is again to be applied as above, and the operation continued till a sufficient quantity of blood is obtained. Sometimes, especially when applied to the scalp, the cups fill so rapidly with blood, as to become detached almost immediately on being applied.

For the operation of cupping, a basin of hot water, sponges, and clean soft towels

are to be provided. It is generally considered as a severe and painful operation; but this is not the case, if the operator understand his business. This is readily ascertained by observing the manner in which the cups are applied, and the rapidity with which they are filled. A good cupper does not exhaust much of the air in the cup before applying it, but simply passes its mouth rapidly over the flame of a lamp; for, when it is held over the flame even for a few seconds, the compression of the edge of the cup upon the skin is so great, that it operates as a ligature, and checks the flow of the blood to the scarified part; thence very little blood is procured. A good cupper, also, removes the cups without spilling the blood which they contain; and the whole operation is completed in a short time.

In our large towns, it is but seldom that physicians, nurses, or those attending in a sick room, are called upon to perform the operation of cupping, as professional cuppers are readily to be obtained; but in small towns or villages, this is not the case, and the duty devolves either upon the physician or on those acting as nurses; and hence some directions are necessary to those unaccustomed to this task. Few are found sufficiently expert to exhaust the air in the cup by means of the lamp; and even among the professional cuppers in this city this mode is very rare, though, when properly performed, it is by far the best. The usual plan is to rarify the air in the cup by means of a small cone of paper, dipped in spirits of wine, or strong brandy; this is ignited and thrown in the cup, which is instantly to be applied to the intended spot. Where the proper cupping-glasses and scarificator are not to be had, wine glasses or very small tumblers may be substituted for the first, and small incisions by means of a thumb lancet will answer the purpose of the latter. A very convenient apparatus may be obtained at most of the surgical-instrument makers, consisting of cups and an exhausting syringe fitted to them, by which even the most inexperienced nurse can perform the operation of cupping.

The cicatrices of the scarifications leave a permanent mark; on which account, females should not be cupped upon the nape of the neck; but when blood is to be drawn from the head, the glasses should be applied behind the ears, and a portion of hair removed in such a manner that it may be covered by what remains.

When cupping-glasses are applied without any scarification being practiced, the operation is called *dry cupping*, and is much used to cause a speedy irritation of the skin for the relief of oppression of breathing, local pains, &c. To obtain the full benefit from this operation, the cups should be suffered to remain upon the part until they cause an exudation of a small quantity of serum, or great irritation of the part. The application of dry cups has been found extremely beneficial in poisoned wounds; they act not only by abstracting the poison, but also, by the pressure they exercise on and around the part, in preventing the absorption of it. The experiments of Dr. Barry in England, and of Drs. Pennock and Rodrigue in this country, show unequivocally the value of this plan of treatment.

*Leeching* consists in the application of leeches to any vascular part of the body. These are annulated animals, having an extensile, soft body, terminated at each extremity with a muscular disk, the anterior of which is furnished below with a mouth having three crenate jaws, armed with numerous sharp teeth. To draw blood, the leech first renders the part tense by means of the anterior disk, which acts like a cupping-glass, and then makes a triangular wound by a saw-like motion of its tri-radiate jaws; it then draws the blood by suction, until it is completely gorged, when it detaches itself and falls off.

Leeches are seldom properly applied or managed. The part to which they are intended to be applied should be washed with a little soap and warm water, then with simple cold water, and, lastly, it should be well dried. If the part be hot and inflamed, the leeches should be put, for a few minutes, into tepid water; and this should be done, also, when they are to be applied in the mouth, or to any part of the body warmer than the general surface; but, at all times, before they are applied, they should be dried between the folds of a clean soft towel. The easiest and best mode of applying them is, first, to place the number to be used in a hollow made with the points of the fingers in a towel folded like a napkin; then, so to turn the towel and the leeches upon the part where it is intended they should fix, that the towel will cover them. The hand must

be kept over the towel, to prevent their escape, until they all bite, which usually happens in a few minutes: after which, the towel may be removed. By this method, twenty or thirty leeches can be applied more rapidly and with less trouble than two, when each leech is separately applied. Another plan is to put the leeches into a pill-box or small glass, and apply this over the part to which it is designed that they should attach themselves. If this plan, however, cannot be pursued, owing to the nature of the part to which they are to be applied—as, for example, the inner or outer angle of the eye—then the simplest method is to scratch the skin with the point of a needle, and to apply the leech to the spot moistened with blood. When they are to be applied within the mouth, or any open cavity, each leech should be put into a large quill, with its head towards the open end of the quill, which should be applied to the part, and retained upon it until the leech is fixed, when the quill may be gently withdrawn; but a thread should be tied round the tail of the leech when it is to be applied within the mouth, to prevent it from being swallowed—an accident which has occasionally happened, and has been productive of serious consequences.

Leeches should never be forcibly detached, as their teeth are apt to separate, and, being left in the wound, to cause an erysipelatous inflammation on the part. They should be permitted to drop spontaneously, which being the result of a temporary suffocation (*asphyxia*), all muscular energy ceases in the animal, and, the teeth shrinking, it drops off entire. A bread-and-water poultice, not too hot, should then be laid over the bites, to encourage the bleeding. The invalid should be kept warm in bed, when it is necessary to abstract a large quantity of blood. In general, the bites soon cease to bleed; but, in some instances, a copious flow takes place; and therefore, to prevent exhaustion, the poultice should be frequently examined. This exhaustion is more likely to occur in children than in adults; and, for the same reason, leeches should not be applied upon children late in the evening, unless they are very urgently required. It is also proper, in young patients, to select for their application a part which admits of pressure; for example, the thorax and temples, where the bones are covered with a thin layer of soft parts. Sometimes the hemorrhage continues so as to become alarming; in such cases, where pressure is unavailing or cannot be practiced, creasote or some of the styptics applied to the bites will be found useful. Powdering the spot with rye flour has also proved effectual. When these means fail, cauterizing the bites by means of a fine point of nitrate of silver, or with a red-hot probe or knitting needle generally proves successful.

*Scarifications* are slight incisions made in a vascular part, in order to relieve the engorged capillaries; they are practiced in inflammations of the conjunctiva, and in those of the tonsils, with much benefit in many cases. The operation is very simple, consisting merely in dividing the surface of the inflamed parts to a slight depth with the point of a lancet or scalpel, and encouraging the bleeding by means of warm water.



## POISONS.

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POISONS are usually defined to be substances of an animal, vegetable, or mineral nature, which, when administered in a small quantity, are capable of producing deleterious effects on the animal economy, and, in some instances, of causing the same consequences when applied to the surface of the body. But this definition is not strictly accurate, and is not applicable to all cases of poisoning; nor is it, perhaps, possible to give in a few words such a one as would include all poisonous agents. Poisons are usually arranged according to their action on the system; but, as the alphabetical plan has been pursued in the main body of this work, it will be continued in the present instance. For full information on the subject, the reader is referred to the work of A. S. Taylor "On Poisons in relation to Medical Jurisprudence and Medicine."

### ACID, ACETIC.

*Symptoms.*—Great heat and burning pain in the stomach, convulsions, death.

*Morbid Appearances.*—Mouth and fauces brownish; lingual papillæ enlarged; œsophagus lined with a brownish adventitious membrane; stomach livid and even blackened; vessels much injected.

*Antidotes.*—Magnesia or its carbonates mixed into a cream with water.

### ACID ARSENIOS, or ARSENIC. A metallic, corrosive poison.

*Symptoms.*—A metallic, austere taste; a great flow of saliva; nausea and vomiting; fainting, great thirst; a sensation of heat in the stomach, which, in many cases, rejects the mildest fluids; much griping, tenesmus, and purging; the stools being dark-colored and very offensive; the urine scanty and high-colored; the pulse small, frequent, and often intermittent; distressing palpitation of the heart, with labored respiration and cold sweats; prostration of strength; sometimes paralysis of the extremities, delirium, convulsions, &c.

*Morbid Appearances* generally confined to the stomach and intestines; in the former, in the form of intense inflammation, but not of erosion or abrasion; the inflammation also evident in the upper intestines, but slight in the colon, though often violent in the rectum. The morbid appearances of other organs various. Sometimes no morbid phenomena to be found.

*Tests.*—In the solid state: entirely sublimed by heat. If previously mixed with charcoal (and placed in a suitable test-tube), deoxidated arsenic will be obtained in form of a metallic coating inside the tube; and this may be re-converted into arsenious acid by urging it in various directions along the tube with the aid of a minute (spirit-lamp) flame; the facets of the crystals thus formed (on the cooler situations) will be seen in some places with the unassisted eye, but more distinctly by means of a 4-power lens.

In solution: ammoniacal nitrate of silver produces a lemon-colored (*arsenite of silver*) precipitate. Ammoniacal nitrate of copper throws down a fresh, grass-green (*arsenite of copper*) precipitate. Transmission of sulphuretted hydrogen produces a bright yellow (*sesquisulphuret of arsenic*) precipitate. Lime-water precipitates a white (*arsenite of lime*) powder; but this test is not one to be relied upon.

Placed with zinc, and diluted sulphuric acid, in Marsh's apparatus, the arseniuretted hydrogen thence arising, when lighted, will deposit metallic arsenic on a piece of glass held within the flame.

The precipitates referred to, if washed and dried, may be treated as directed above for arsenic in the dry or solid condition.

[NOTE.—In testing suspected matters obtained from the stomach, these (and, in cases of death, the stomach itself) must be cut or broken down, and boiled during at least three-quarters of an hour: if not sufficiently fluid, add distilled water. Strain, and with addition of a small quantity of potash, again boil during a quarter of an hour, and filter. If this liquor manifests either alkaline or acid reaction, neutralize with potash, or with acetic acid, as may be required; then acidulate it faintly with hydrochloric acid. Solution of nitrate of silver will remove the acid; and solution of muriate of soda will precipitate any excess of silver. The liquor may now be experimented on with the above tests.]

*Treatment.*—Abundant draughts of sweet milk, gruel, decoctions of starch, or oily mixtures; tickling the fauces, &c., to induce vomiting; the stomach-pump; emetics of sulphate of zinc. Hydrated sesquioxide of iron (newly prepared, *v. process*, page 209) in large doses is the only antidote of reliance.

Afterwards combat any inflammatory symptoms by the usual means, and let the patient subsist, for a long time, wholly on the blandest diet.

All arsenical poisons have much the same action, and similar means are to be used for their detection and for counteracting their effects.

ACID, BORACIC.—This is said to be very virulent; but no instances have been recorded of its fatal effects on man.

*Tests.*—Not very soluble in water; soluble in alcohol, which, when inflamed, burns with a rich green color; soluble in the caustic alkalis.

ACID, CARBONIC.—This gas is freely liberated in respiration, combustion, and fermentation, also in the calcination of lime, and is found in coal mines, wells, and cellars.

*Symptoms.*—Great drowsiness, giddiness, difficulty of respiration, loss of muscular power and sensibility, and coma. The whole body, but especially the face, appears swollen and livid; eyes are usually prominent, and retain their brilliancy for some time.

*Tests.*—It extinguishes a taper if the proportion be above twelve or fifteen per cent.; lime-water, or a solution of subacetate of lead, is precipitated white by it.

*Treatment.*—Remove the person into the open air, and elevate the head, dash cold water over him, apply stimulating frictions to the thorax and extremities, use artificial inflation of the lungs; as soon as the patient can swallow, stimulants may be cautiously administered; but, if there are signs of oppression of the brain, venesection is to be performed.

ACID, CITRIC.—In large doses, acts as an irritant poison; but no fatal case in the human subject has been recorded.

ACID, HYDROCYANIC or PRUSSIC.—An extremely active, sedative poison.

*Symptoms.*—When the dose is large, almost immediate death ensues; in smaller quantities, it causes pain in the head and stupor, nausea, faintness, vertigo, and loss of sight, followed by difficulty of respiration, dilated pupils, a small vibrating pulse, and syncope, which will end in death, if curative means are not employed.

*Morbid Appearances.*—None; but a strong odor of the acid is exhaled from the stomach.

*Tests.*—The (bitter almond) peculiarity of its odor. When a little potash is mixed with liquids containing this poison, and solution of sulphate, or sesquichloride of iron added, a grayish-green precipitate is thrown down—which deepens to a Prussian blue tint, on addition of a few drops of sulphuric acid. The nitrate of silver produces a white (*cyanide of silver*) precipitate; which, after being washed and dried, and then held on a watch-glass over a flame, burns with a fresh rose-color, cyanogen being at the same time evolved.

When a mixture is to be examined, containing matters from the stomach, &c., if alkaline, it must first be neutralized by addition of sulphuric acid, then one-eighth

part cautiously distilled therefrom into a receiver immersed in some frigorific mixture; and the product may then be tested by nitrate of silver, as above.

*Treatment.*—The internal remedy best calculated to act chemically on this poison, is carbonate of potash in solution, quickly succeeded by watery solutions of sulphate of iron (with the intention of decomposing the acid, and forming the less injurious substance named *Prussian blue*); but the instances of successful treatment by these, or, indeed, by any other kind of treatment, are extremely rare. Inhalation of chlorine gas, ammonia, &c.; artificial respiration; exhibition of energetic stimulants, such as brandy, liquid ammonia; chlorine-water, chloride of soda and of lime, have all been extolled, and may be tried. Mustard poultices to the stomach, and cowhage applied over the chest; venesection at the neck, temples, &c.; and affusion of cold water to the head and spinal district, are more likely to prove timely excitant and effective remedies. Employment of the stomach-pump, emetics, &c., seems a most improbable means of relief—or, rather, a waste of time.

**ACID, MURIATIC or HYDROCHLORIC.**—A corrosive mineral poison.

*Symptoms.*—Sensation of burning in the throat and stomach, styptic taste in the mouth, much thirst; the eyes red and sparkling; the pulse frequent and tense; the skin hot and dry; the tongue red and glazed; the lips black; vomiting of blood and yellow matter, having the peculiar smell of the acid; cold sweats, delirium, &c. Orfila also says, a thick white fume, having the penetrating odor of the acid, issues from the mouth.

*Morbid Appearances.*—Mouth, fauces, throat, and stomach highly inflamed, of a deep-red color; mucous membrane sometimes detached or destroyed, sometimes perforated; contents of the stomach yellow or dark green.

*Tests.*—Characteristic acid taste. The presence of muriatic acid (in small proportion) is at all times demonstrable in the juices of the stomach; therefore proof of its presence in *excess* is required in cases of poisoning. When a piece of glass, wetted with this acid, is held close to *liquor ammoniac*, so as to let the vapors of both meet, white (*muriate of ammonia*) fumes are formed. Solution of nitrate of silver produces a white (*chloride of silver*), curdy-looking precipitate.

*Treatment.*—The immediate administration of magnesia, soda, or potassa, mixed in bland demulcent drinks, to be followed by the free use of emollients and mucilages. If patient survives the first effects of the poison, employ antiphlogistic means to overcome the supervening inflammation.

**ACID, NITRIC, or AQUAFORTIS.**—A corrosive mineral poison.

*Symptoms.*—Much the same as those produced by the last-mentioned poison.

*Morbid Appearances.*—In cases where death has occurred soon after the ingestion of the poison, the most striking appearance is a layer of yellow matter on all parts reached by the acid. The lips, chin, and hands of the person are also often stained with orange-colored spots. Perforations of the stomach are found in most cases.

*Tests.*—The orange-colored fumes that are given off, when it is boiled with copper filings, are characteristic. It reddens morphia, and blackens a solution of protosulphate of iron. A fluid containing it, on the addition of carbonate of potassa forms nitre, which may be known by its deflagration, or by powdering a small portion, and placing it in a glass tube with some fine copper filings, moistening with water, and adding a few drops of sulphuric acid—when, if it be nitre, there will be an evolution of the orange-colored fumes of nitrous acid.

*Treatment.*—The administration of magnesia, or chalk, in some bland fluid, then the free use of demulcents, and subsequently the employment of antiphlogistic means to subdue inflammation.

**ACID, OXALIC.**—A corrosive vegetable poison.

*Symptoms.*—Burning heat of the stomach, nausea; sometimes vomiting, but at others, ineffectual efforts to discharge the contents of the stomach; great prostration of strength, violent pain, spasmodic respiration, convulsions, &c. When the patient



survives the first effects of the poison, all the symptoms of violent inflammation of the alimentary canal are developed. In a diluted form, it appears to cause paralysis of the heart or symptoms of cerebro-spinal disease.

*Morbid Appearances.*—Tongue and fauces usually covered with a viscid white coat; the stomach containing a dark-brown mucous fluid, and its substance of almost a gelatinous consistency. In some cases, no traces of the action of the poison are perceptible; but, when death does not occur for some time, the alimentary canal is found inflamed.

*Tests.*—In solid state: Has the characteristic sour taste of most acids; and produces the same changes as they do on vegetable blues. When placed in water, a crackling sound accompanies the solution of its crystals.

In solution: Solution of chloride of lime produces a white (*oxalate of lime*) precipitate (which is insoluble in hydrochloric acid, but soluble in nitric acid). Solution of nitrate of silver also throws down a white precipitate (which, on being carefully dried by aid of heat, on bibulous paper, acquires a brownish outline, and towards the end shows some slight explosions).

*Treatment.*—Mixtures of magnesia, whiting (or plaster scraped from off the inside wall of an apartment) mixed with water (the amount of the latter being as small as convenient for swallowing); abundant drinks *subsequently*. No alkalies should be employed.

ACID, SULPHURIC.—A corrosive mineral poison.

*Symptoms.*—An austere styptic taste in the mouth; a sensation of burning heat in the throat and stomach, followed by nausea, vomiting, and much fetor of the breath. The matters vomited contain both venous and arterial blood. Signs of great inflammation of the abdominal viscera soon manifest themselves, with difficult respiration, a croupy cough, and a small, frequent, irregular pulse; great anxiety and restlessness, convulsive motions of the muscles of the face and lips; sometimes a papulous eruption preceding death.

*Morbid Appearances.*—These are not always to be found, except in the fauces and larynx, which, in most cases, present evidences of the highly corrosive action of the poison. The stomach sometimes is found to contain a quantity of dark grumous matter, and is much distended with fetid gas—its membranes ulcerated, dark-colored, and having numerous corroded spots, and even perforations.

*Tests.*—The acid may be in a concentrated or a diluted state. If in the former, any organic matter placed in contact with it is blackened and charred; when mixed with an equal bulk of water, much heat is evolved; when boiled with copper filings or mercury, sulphurous acid gas is evolved. When the acid is in a diluted state, the best test is nitrate of baryta, which causes a dense white precipitate of sulphate of baryta; this can be verified by calcining it for some minutes with an equal weight of charcoal, wrapped in platina foil, then introducing the residue into a glass-tube and adding a few drops of muriatic acid. This will cause an extrication of sulphuretted hydrogen, which can be recognized by its odor, and by its blackening carbonate or acetate of lead.

*Treatment.*—The same as for the other mineral acids.

ACID, TARTARIC.—A corrosive vegetable poison.

*Symptoms.*—Very analogous to those caused by oxalic acid.

*Morbid Appearances* are likewise similar to those produced by oxalic acid.

*Tests.*—When heated on platina foil, it burns with a pale reddish flame, and exhales a peculiar acid vapor, leaving much carbonized matter. When a solution is treated with lime-water, it affords a white precipitate, soluble in an excess of the acid; when treated with caustic potassa, it affords a granular precipitate of the bitartrate.

*Treatment.*—The same as for oxalic acid.

ACETATE OF COPPER. See Copper.

ACETATE OF LEAD. See Lead.

ACETATE OF MORPHIA. *See* Opium.

ACONITE. *See* Vegetable Poisons.

ALCOHOL.—A narcotico-acrid poison.

*Symptoms.*—These vary according to the dose. In small quantities, there is mere excitement. In large doses, much excitement, with delirium, confusion of intellect, followed by somnolency; nausea and vomiting, and even coma and apoplexy. When an undue portion has been swallowed, it often proves instantly fatal; it may also prove fatal by occasioning or aggravating other diseases. The effects of an habitual use of it are diseases of the viscera, and various mental and nervous disorders. The symptoms of poisoning with alcohol may be mistaken for those of epilepsy or apoplexy.

*Morbid Appearances* are inflammation, softening, &c., of the mucous membrane of the stomach, congestion of the cerebral vessels, sanguineous or serous extravasation in the brain or lungs.

*Tests.*—Odor of the contents of the stomach, or of matters ejected from it. The chemical proof consists in removing the contents of the stomach, mixing them with distilled water, filtering and distilling in union with carbonate of potassa or soda; the product is mixed with fused chloride of sodium, and again distilled. Alcohol will be found in the receiver.

*Treatment.*—Withdraw the contents of the stomach, as speedily as possible, by a stomach-pump; afterwards an emetic of salt and water should be given in large doses, and repeated, at short intervals, till the stomach is well cleared. The cold affusion is useful in some cases. Ammonia may be employed as a stimulant, and general symptoms obviated by blood-letting; but this must be employed with great caution.

## ALKALIES.

AMMONIA.—A corrosive mineral poison.

*Symptoms.*—Excoriation of the mouth and fauces; burning sensation in the throat and stomach, usually followed by vomiting and purging, the ejected matters being often bloody. When the quantity taken is large, an immediate feeling of strangulation ensues, attended with convulsions. If the result is fatal, it quickly follows the ingestion of the poison. The inhalation of ammonia by the nostrils, when it is too freely used in cases of fainting, has caused the same symptoms as when taken into the stomach.

*Morbid Appearances.*—Marks of high inflammation of the parts with which the poison has come in contact.

*Tests.*—The pungent odor; its alkaline reaction—but which is dissipated by heat. By causing a yellow precipitate with a mixture of arsenious acid and nitrate of silver; by producing a rich violet-blue solution with sulphate of copper; and forming white fumes with chlorine.

*Treatment.*—The immediate administration of one of the vegetable acids, and afterwards the copious use of demulcents. When ammoniacal vapor has been inhaled, the patient should inspire the vapor of vinegar.

POTASSA.—A corrosive mineral poison.

*Symptoms.*—An acrid, caustic, urinous taste in the mouth; a sensation of burning heat in the throat; nausea, and sometimes vomiting of bloody matters. The surface cold and clammy; the pulse quick and feeble; hypercatharsis, and violent colicky pains.

*Morbid Appearances.*—Strong marks of inflammation in the alimentary canal, softening, erosion of the mucous coat, and, in some cases, perforation of the stomach.

*Tests.*—Alkaline reaction; precipitation of nitrate of silver in the form of a dark-colored oxide. Carbonic acid water causes no precipitate. A concentrated solution affords a canary-yellow precipitate with bichloride of platina.

*Treatment.*—Vinegar and the diluted vegetable acids, to be followed by a free use of demulcents, or oleaginous mixtures.

**SODA.**—A corrosive mineral poison.

*Symptoms and Morbid Appearances.*—Analogous to those following the use of potassa.

*Tests.*—Caustic soda in solution is not precipitated by bichloride of platina or tartaric acid; its alkaline nature can be ascertained by the usual tests.

*Treatment.*—The same as for potassa.

**ANTIMONY.**—Metallic antimony is not regarded as a poison; but its vapor is said to cause unpleasant symptoms when respired.

**ANTIMONY, TARTARIZED,** generally known as **TARTAR EMETIC**, is an irritant metallic poison.

*Symptoms.*—Nausea and severe vomiting, hiccough, cardialgia, burning heat at the epigastrium, severe colic and purging, small and rapid pulse, cold skin, syncope, difficult respiration, vertigo, insensibility to external stimulants, painful cramps in the lower extremities, great prostration of strength.

*Morbid Appearances.*—The stomach and intestines often much inflated with gas; their mucous membrane red, and covered with a slightly adhering viscid layer; the peritoneum of a dark brick-red hue; the membranes of the brain displaying marks of inflammation.

*Tests.*—In a solid state, add charcoal, introduce into a test-tube and expose to heat; metallic antimony will be found of a grayish-black lustre. In the state of solution, diluted nitric acid causes a white precipitate. Sulphuretted hydrogen throws down a reddish-orange precipitate. Solutions containing tannin cause a copious, curdled, whitish-yellow precipitate. Should matters from the stomach be present, the solution must be well agitated along with a small portion of muriatic and tartaric acid; then filtered previous to being experimented on.

*Treatment.*—Encourage vomiting by free administration of warm water and other diluents, or employ the stomach-pump, if necessary. Infusions containing tannin are very useful by decomposing the poison.

**BARYTA, AND PREPARATIONS OF.**—The only two preparations of baryta that have caused death are the **CARBONATE** and **CHLORIDE**.

*Symptoms.*—Those of irritation, combined with an affection of the brain and nervous system, as vertigo, convulsions, and paralysis.

*Morbid Appearances.*—Evidences of inflammation of the mucous coat of the stomach.

*Tests.*—In solution: sulphuric acid throws down a profuse dense white (*sulphate of baryta*) precipitate. Solution of nitrate of silver also produces a white (*sulphate of silver*) precipitate. Sulphuretted hydrogen produces no change of appearance; which circumstance, being peculiar to salts of barium, is valuable as a *negative test*.

*Treatment.*—Sulphates of magnesia or soda in solution in water, if the patient is seen early; they are, however, of little use where the carbonate has been taken, for in this case emetics and the stomach-pump should be used.

**BELLADONNA.** See Vegetable Poisons.

**BISMUTH.**—The only preparation that has caused death is the **SUBNITRATE**.

*Symptoms.*—Burning pain in the throat, nausea, vomiting and diarrhoea, coldness of the extremities, and spasms.

*Morbid Appearances.*—Inflammation of the fauces and œsophagus, redness of the stomach and intestines.

*Tests.*—In substance: Dissolves in nitric acid, without change of color, and without effervescing (which distinguishes it from a *carbonate*). Sulphuric acid produces no



precipitate (disproving the possible idea of its being a preparation of *lead*). Dissolve it in nitric acid, and add solution of potash so long as any precipitate is thrown down; gather this in a filter, and, after washing and drying it, place it on charcoal (and treat it as directed for preparations of lead), when its reduction to the metallic condition will be effected.

*Treatment.*—Induce vomiting by tickling the fauces, &c., and give continuous full draughts of sweet milk.

**BROMINE.**—An irritant, corrosive mineral poison.

*Symptoms.*—Irritation and inflammation of the parts with which it comes in contact, whether in substance or in vapor.

*Morbid Appearances.*—Fauces, œsophagus, and stomach inflamed and corroded, mucous membrane gelatinized, duodenum of a yellow color, and thickened; the parts retaining a strong smell of the poison.

*Tests.*—Its color, odor, and volatility. All solutions containing it are rendered colorless by the addition of potassa. On being evaporated, the residue is to be incinerated at a low temperature, the ash dissolved in distilled water, filtered, and chlorine passed through the solution. On the addition of ether, the bromine is taken up by that fluid.

*Treatment.*—The immediate and free use of albumen, or starch.

**BRUCIA.** See Vegetable Poisons.

**CALOMEL.** See Mercury.

**CAMPHOR.** See Vegetable Poisons.

**CANTHARIDES.**—An acrid and corroding animal poison.

*Symptoms.*—A burning sensation in the throat; violent pain in the stomach and bowels; nausea, vomiting, and purging—the ejections being frequently bloody and purulent; great heat and irritation of the urinary organs, sometimes the most painful priapism; pulse quick and hard; convulsions, tetanus, delirium, syncope.

*Morbid Appearances.*—Inflammation and erosion of the stomach; if in substance, fragments of the flies, adhering to the mucous coat, or mixed with contents; marks of inflammation in the intestines and urinary organs: these are most evident when death does not soon follow the ingestion of the poison.

*Tests.*—The characteristic green, shining appearance of the fragments of the flies, and the character of the symptoms.

*Treatment.*—The promotion of vomiting by means of warm demulcents; copious dilution, bleeding, the warm bath, opiate frictions, enemata of mutton broth, laudanum, &c. Camphor, though not an antidote, alleviates some of the most distressing symptoms.

**CARBONIC ACID GAS.**

*Symptoms.*—Great drowsiness; difficulty of respiration; loss of sensibility; the countenance of a livid or deep leaden color.

*Morbid Appearances.*—Whole body, but especially the face, swollen, which is also usually livid, and the features distorted; eyes generally prominent, and retaining their brilliancy. Vessels of the brain and lungs in a state of congestion.

*Tests.*—Expose a vessel, filled with lime-water, to the deleterious atmosphere, when, if carbonic acid be present, it will assume a milky appearance, and let fall a white precipitate. A lighted candle will detect the presence of carbonic acid gas (if in excess) by being immediately extinguished in the tainted atmosphere; it must, for this purpose, be held near the floor. [The utmost caution should be observed in introducing lighted tapers into close situations *supposed* to contain this gas, lest an explosive hydrocarbon may, instead, be met with.]

*Treatment.*—Remove the patient from the situation or apartment in which the poison has been inhaled; or open the doors, windows, &c., for admission of pure air.

Continued application of cold water to the head and neck. Bleeding may be necessary; or cupping at back of the neck. Cautious inhalation of steam from warm water placed in a convenient vessel.

**CHLORINE.**—An acid gaseous poison.

*Symptoms.*—Great and painful constriction of the glottis, cough, sensation of suffocation, alternating with asphyxia; if the case is protracted, inflammation of the larynx, and pneumonic inflammation; odor of the gas perceptible in the breath and in vomited matters.

*Morbid Appearances.*—Marks of irritation and inflammation in all the parts with which the poison has come in contact.

*Tests.*—A solution of this gas has a yellowish color, and a strong peculiar smell, which latter is evolved on boiling. It gives a white precipitate with nitrate of silver, which is insoluble in muriatic acid.

*Treatment.*—The best remedy is a free use of albumen. Magnesia with mucilaginous fluids may also be freely exhibited.

**CHROME.**—The only form of this metal that requires notice is the

**BICHROMATE OF POTASSA.**—An acid mineral poison.

*Symptoms.*—Burning heat in the mouth, throat, and stomach; excessive and painful vomiting of bloody mucus; convulsions, palsy, &c.

*Morbid Appearances.*—Softening and abrasion of the mucous coat of the stomach and intestines.

*Tests.*—In substance, by its orange-red color. In solution, by affording a rich red precipitate with nitrate of silver, a bright yellow with acetate of lead, a dingy green with sulphuretted hydrogen.

*Treatment.*—The use of the carbonates of potassa or soda to neutralize the excess of chromic acid, followed by the administration of emetics.

**COCCULUS INDICUS.** *See Vegetable Poisons.*

**COLCHICUM AUTUMNALE.** *See Vegetable Poisons.*

**CONIUM MACULATUM.** *See Vegetable Poisons.*

**COPPER.**—This metal is not poisonous in a metallic state, but becomes highly so when oxidated, or in combination.

The most common preparations of copper are the **ACETATE** (*verdigris*), **SULPHATE** (*blue vitriol*), the **CARBONATE**, and **AMMONIURET**.

*Symptoms.*—Violent headache, vomiting, pain in the bowels, cramps in the lower extremities, a peculiar and permanent coppery taste, diarrhoea, convulsions, palsy, and insensibility.

*Morbid Appearances.*—Marks of inflammation in the stomach and intestines. When the case has been protracted, there is often a green tinge of the lining membrane, and a jaundiced appearance of the skin.

*Tests.*—The Sulphate in a solid state: bright blue color, astringent metallic impression on the tongue.

In solution: transmission of sulphuretted hydrogen affords a brownish-black (*sulphuret of copper*) precipitate. Solution of ammonia precipitates a pure green substance, which, on further addition of ammonia, becomes dissolved; but when only a small amount of the poison is present, no precipitation occurs, a clear violet-colored solution being then at once presented. Ferrocyanide of potassium throws down a reddish-brown (*ferrocyanide of copper*) precipitate. A piece of polished zinc or iron (as the blade of a table-knife) acquires a plating of copper, if placed in a liquid containing the above salt. The tests for sulphuric acid will indicate its presence here as the combining acid.

The Acetate: Same tests as preceding, excepting the last.

The Ammonio-sulphate: has a brilliant violet-blue color, and an ammoniacal odor. Solution of arsenious acid affords a fresh apple-green precipitate; this experiment is, conversely, that for arsenious acid.

*Treatment.*—Vomiting to be promoted by copious draughts of warm water, milk, or mucilaginous fluids; various antidotes have been highly praised. Sugar was formerly recommended, but has not been as successful as was supposed. Albumen and milk form an insoluble compound with copper, provided they are in large excess. The protosulphuret of iron and iron filings have also been employed with advantage; but their action is too slow. The hydrated oxide of iron has been successfully administered where the arsenite of copper had been taken.

CORROSIVE SUBLIMATE.—*See Mercury.*

DIGITALIS.—*See Vegetable Poisons.*

### IODINE.

*Symptoms.*—In large doses, this substance causes heat and constriction of the fauces, nausea, offensive eructations, pain in the stomach, retching, colic, diarrhoea, quickness of the pulse, tremblings, great thirst, salivation, convulsions, &c.

*Morbid Appearances.*—Distension and inflammation of the stomach and bowels; sphacelation in some places: in protracted cases, increased size and paleness of the liver.

*Tests.*—In the solid form, it is in bluish-gray scales, having somewhat the odor of chlorine. When heated in a tube, it gives off violet fumes; when added to the mucilage of starch, it strikes a deep blue color. When it is mixed with other matters, pass a stream of sulphuretted hydrogen through the mixture, boil it, saturate with potassa, add mucilage of starch, filter, add nitric acid, and the color will indicate iodine.

*Treatment.*—Promote vomiting by the free administration of amylaceous and mucilaginous fluids, and treat the inflammatory symptoms as they occur.

### IODIDE OF POTASSIUM.

*Symptoms.*—Uneasiness of the stomach, followed by nausea, and a burning sensation in the stomach, vomiting, cephalalgia, vertigo, and tremors.

*Morbid Appearances.*—Stomach contracted; mucous membrane with ecchymosed spots, and some abrasions; marks of inflammation in the intestines.

*Tests.*—Solid state. Heat with the protoxide of manganese; moisten the powder with a mixture of equal parts of sulphuric acid and water; heat in a tube, and the purple vapor of iodine makes its appearance.

In solution: add to the filtered fluid an equal quantity of mucilage of starch, and a few drops of nitric acid, and the characteristic blue color will be produced. Test the urine in the same manner. It may also be detected in the solids of the body, by drying them, incinerating and lixiviating, filtering, and using starch and nitric acid.

*Treatment.*—The same as for iodine.

IRON.—Not poisonous in a metallic state; but some of its preparations act as irritants, especially the sulphate and the muriate.

*Symptoms.*—Nausea, vomiting, and purging; sensation of heat in the stomach and bowels; dejections of a black color, &c.

*Morbid Appearances.*—Softening of the mucous coat of the stomach and intestines; the whole extent of the alimentary canal of a black color; marks of inflammation.

*Tests.*—For the sulphate: ferrocyanide of potassium will give a greenish-blue precipitate, becoming a deep blue by exposure to the air; hydrosulphuret of ammonia will give a black precipitate. The presence of sulphuric acid can be ascertained by means of nitrate of baryta.

*Treatment.*—In poisoning by either salt, magnesia or the alkaline carbonates should be freely given.



**LEAD.**—In a metallic state, does not appear to be poisonous; but most of its compounds are so, especially the acetate, chloride, carbonate, and oxide.

*Symptoms.*—Obstinate constipation, violent colic with retraction of the abdomen; vomiting, pulse small and hard, laborious breathing, and tremors, gums with a blue tinge, paralysis of the extremities, &c.

*Morbid Appearances.*—The appearances on dissection are very various, but are principally those of inflammation.

*Tests.*—In a solid state: Mixed with potash and charcoal, and exposed to a red heat (or placed in a suitably sized hollow in a piece of charcoal, and exposed to a blow-pipe flame), metallic lead is formed.

In solution: Sulphuric acid, and sulphates, throw down a white (*sulphate of lead*) precipitate. Solution of carb. of soda gives a white (*carbonate of lead*) deposit. Solution of chromate of potassa a rich yellow (*chromate of lead*) precipitate. Transmission of hydrosulphuric acid produces a blackish (*sulphuret of lead*) precipitate. Zinc precipitates lead from solution of any of its salts.

To render the *carbonate* amenable to the foregoing tests, it must first be dissolved in a sufficiency of nitric acid diluted with distilled water.

*Treatment.*—Administer solution of sulphate of zinc in full doses; induce and continue vomiting. If an insoluble salt of lead is the poison, almond or olive oil must at first be given in considerable quantity. The free exhibition of the sulphate of soda or magnesia, or of milk or albumen, to be followed by an emetic. In colic, the treatment is to consist of active purgatives, followed by full doses of opium or Dover's powder. Inflammatory symptoms are to be counteracted by antiphlogistic means.

**LOBELIA.**—*See Vegetable Poisons.*

**MERCURY.**—In a metallic state exercises but a slight influence on the body, but in a state of vapor is capable of causing violent symptoms. All the salts of mercury are poisonous; but the most important is corrosive sublimate.

*Symptoms.*—The symptoms caused by corrosive sublimate resemble those produced by arsenic, but, from the salt being more soluble, they are more immediate and violent; there is a more marked taste, and the evacuations are more frequently bloody. There are three varieties of poisoning with mercury. In the first, the leading symptoms are, violent irritation of the alimentary tube, namely, vomiting, purging, pain at the pit of the stomach, and irritation in the throat; metallic, styptic taste, corrosion of the mouth, tongue, and palate; constriction of the throat, and difficulty of swallowing. Blood evacuated both by vomiting and by stools, suppression of urine, countenance flushed, tumid, and bloated. In the second variety, salivation and sloughing of the mouth succeed to the irritation and inflammation. In the third, mercurial erythema comes on, and is not preceded by the symptoms of local irritation. The first variety arises from the more soluble salts of mercury, in large doses; the second, from the same preparations, but in smaller doses, and more diluted; the third, by the more insoluble and refractory compounds.

*Morbid Appearances.*—These are similar to those attendant on irritative or corrosive poisoning. There are frequently shrivelling of the tongue, and enlargement of the papillæ and root. In some cases, red and black spots in the cavities of the heart. Corrosion, ulceration, and disorganization of the mucous coat of the stomach and intestines. An inflamed condition of the urinary organs is also frequently observed.

*Tests.*—Corrosive sublimate in a solid state: Is sublimed when heated in a test-tube; and the acrimonious fumes speedily condense into a crystalline, semi-transparent mass. Placed in a test-tube, and potassa or soda added in solution, a yellow (*peroxide of mercury*) precipitate is thrown down (lime has the same effect). Triturated with an equal weight of well-dried carbonate of potassa, metallic globules of mercury will become visible.

In solution: Ammonia sends down a white (*ammonio-chloride of mercury*) precipitate. Solution of *proto-chloride* of tin affords a (*calomel*) precipitate, which at first is white, but acquires a leaden color on adding more of said test; when this precipitate (after being well agitated) is dried, minute globules of quicksilver are

formed. Transmission of sulphuretted hydrogen produces a (*bisulphuret of mercury*) precipitate, which at first is leaden-colored, then black. Solution of iodide of potassium affords an intensely brilliant scarlet (*proto-ioduret of mercury*) precipitate. Corrosive sublimate may be reduced to the metallic state through galvanic influence applied as follows: A drop of the suspected fluid being laid on a piece of polished gold, and both it and the gold touched at the same instant by a point of iron (as a thick needle, or the end of a penknife), a small silvery coating of mercury soon becomes apparent on the gold. Being most soluble in sulphuric ether, addition of this fluid is of much service when the poison is found mingled with organic or other matters.

The Bicyanide: When heated in a tube, cyanogen gas is evolved, which, when inflamed at the mouth, burns with a rose-red flame, with a blue halo.

Calomel: Is sublimated by heat. When heated along with potash, it at first assumes a black appearance, and then quicksilver globules are observed. Hydro-sulphuret of ammonia is equally valuable in treatment of calomel, as in the foregoing.

The Iodide: On cautious application of heat, it sublimes in red-colored crystals, which soon change to yellow, and subsequently to a dusky hue. On exposure to a sufficient degree of heat, iodine fumes are disengaged. When mixed with potash (in equal weights) and heated in a test-tube, decomposition occurs; metallic mercury being sublimed, and iodide of potassium deposited in the tube.

Red Precipitate: Exposed to heat in a test-tube, metallic mercury is sublimed; evolution of oxygen being at the same time demonstrable.

The Persulphate: Treated in same manner as foregoing, sublimation of the mercury takes place; and sulphurous acid gas is perceptibly evolved.

*Treatment.* If vomiting does not already exist, it must be produced by the exhibition of emetics. Various antidotes have been suggested for this poison. The best appears to be albumen of eggs in continuous large doses, and infusion of catechu afterwards; sweet milk; mixtures of flour with water (for sake of gluten) in successive cupfuls; iron filings (emetics of tartrate of antimony have been recommended, to combat ptyalism, when present); but to check excessive salivation, small doses of the chlorate of potassa appear to be the most successful.

MORPHIA. *See* Vegetable Poisons. Opium.

NUX VOMICA. *See* Vegetable Poisons.

OPIUM. *See* Vegetable Poisons.

PHOSPHORUS.—A corrosive poison.

*Symptoms* are protracted in their appearance. A hot alliaceous taste in the mouth; acrid burning sensation in the throat and stomach; nausea and vomiting. The vomited matters are of a dark color, and emit white fumes; pulse small and frequent; frequently violent convulsions.

*Morbid Appearances.*—A general inflammatory appearance of the stomach and intestines, with sphaecelated spots in various parts.

*Tests.*—The peculiarity of its odor; its highly inflammable property, when only moderately heated.

*Treatment.*—Mixture of magnesia and cold water, in repeated draughts. Promote continuous vomiting by tickling application of a feather to the fauces. The exhibition of oil is injurious, as it tends to dissolve the phosphorus.

STRYCHNIA.—*See* Vegetable Poisons. Nux vomica.

TIN.—This is not poisonous in a metallic state; but some of its salts, as the chlorides, are violent irritants.

*Symptoms.*—An austere metallic taste; constriction of the throat, impeded respiration, violent vomiting, cramp of the stomach and violent colic, purging, pulse small and quick, convulsions, sometimes paralysis, asphyxia.

*Morbid Appearance.*—Inflammation and erosion of the stomach and intestines.

*Tests.*—Chloride of gold gives a deep purple-brown, almost black precipitate. Nitrate of silver affords a white precipitate, insoluble in nitric acid. Sulphuretted hydrogen throws down a deep chocolate-brown precipitate, even in diluted solutions.

*Treatment.*—Copious draughts of milk; then excite vomiting. Inflammatory symptoms to be combated by antiphlogistics, and nervous irritation by opiates and antispasmodics.

VEGETABLE POISONS.—These are very numerous, and possessed of the most different qualities; some being mere irritants, others narcotic irritants—whilst another class are pure narcotics.

IRRITANTS.—This includes a great number of vegetable substances, the principal of which are aloes, arum, capsicum, colocynth, creasote, croton seeds, elaterium, euphorbium, gamboge, jalap, mezereon, ricinus or castor seeds, savin, scammony, &c.

*Symptoms.*—Many of these articles act especially on the bowels, and in moderate doses are efficaciously used as purgatives. In large doses, they cause hypercatharsis, and much irritation of the stomach and bowels.

*Morbid Appearance.*—These are various degrees of inflammation of the stomach and bowels.

*Tests.*—None by means of reagents. The rich yellow color of *gamboge* may sometimes prove a means of its detection; and familiar acquaintance with others of the above substances may lead to their recognition by smell, taste, &c.

*Treatment.*—The expulsion of the poison by means of emetics, and, when this is effected, copious demulcent drinks in a warm state; succeeded by liquid cordial, stimulant, or opiate medicines suited to particular circumstances.

NARCOTICS.—This is a small class of the vegetable poisons, the most important of which are opium, hydrocyanic acid, and hyoscyamus.

### OPIMUM.

*Symptoms.*—Drowsiness, stupor, perfect insensibility, followed by delirium or profound coma; pallid countenance, deep and stertorous breathing, cold sweats, slow and full pulse, cold and livid skin, suspension of all the secretions except perspiration; sometimes convulsions, particularly in children.

*Morbid Appearance.*—Sometimes redness of the stomach and intestines, fluidity of the blood, engorgement of the lungs; but the only post-mortem appearance that appears to occur in all cases is turgescence of the vessels of the brain, sometimes with effusion of water on its surface or into the ventricles. But this condition of the brain does not furnish of itself any evidence of poisoning by opium, as it is frequently found to arise from a variety of other causes.

*Tests.*—Opium in substance: its peculiar taste, color, and odor (especially the latter quality when arising from opium in a softened or moist state, and more so if it be moderately heated; as when just obtained from the stomach).

In solution: Nitric acid throws down a red-colored (*nitrate of morphia*) precipitate. Tincture of the muriate of iron produces a (*meconate of iron*) deposit, which is also red.

When the suspected fluid has been procured from the stomach, it usually contains a mingling of organic substances; these must be broken down, and the whole rendered sufficiently fluid by addition of distilled water *when necessary*, then slightly acidulated with acetic acid; the liquor thus obtained, when well agitated, and filtered, must be evaporated to thickness of syrup. And, after being digested with alcohol, it must be boiled, and again concentrated to nearly the consistence of syrup. When this alcoholic extract (as it has been called) is dissolved in distilled water, solution of ammonia cautiously added produces a (*morphia*) precipitate, which acquires a yellow color when nitric acid is dropped into it. When the last named precipitate is removed by filtration, and acetate of lead added to the supernatant (*meconate of ammonia*) liquor, a (*meconate of lead*) deposit is afforded; which, when suspended in water, is decomposed



by transmission of sulphuretted hydrogen; a dark precipitate being thereby thrown down. The fluid remaining from this last process acquires a deep cherry-red hue on addition of the sesquichloride of iron.

**Morphia** in the solid state: Is soluble only in a slight degree in water. Nitric acid turns it first to an orange, and then to a deep orange-red. Chloride of iron gives an inky-blue color, which is destroyed by acids. Iodic acid is decomposed by morphia. To show this, the acid is to be mixed with starch; on the addition of morphia, the iodine combines with the starch, which becomes of a blue color, if the quantity is large, or of a reddish or purplish tint, if small.

*Treatment.*—The stomach to be evacuated by means of the stomach-pump, as speedily as possible. This is to be pursued until the water used no longer has the smell or taste of opium. When a stomach-pump cannot be procured, emetics of sulphate of zinc are to be administered, until the stomach is freed; strong decoctions of tea or coffee are found useful in the intervals. Cold affusions on the head, chest, and spine have been used with great success. Flagellation and other means of arousing the patient from a state of lethargy must also be employed. Bleeding should not be resorted to until all the poison has been eliminated, as the abstraction of blood tends to promote absorption. The administration of vinegar is also objectionable. The best liquid that can be given is a strong decoction of coffee. The various antidotes that have been recommended are useless.

#### HYOSCYAMUS.

*Symptoms.*—Sickness, stupor, dimness of sight and delirium, followed by coma and much dilatation of the pupils; pulse at first hard, but becoming weak and tremulous; petechia often making their appearance before death.

*Morbid Appearances.*—Inflammation of the stomach, bowels, and brain.

*Tests.*—There are no tests that can be relied upon, except a recognition of the plant and the nature of the symptoms.

*Treatment.*—The speedy evacuation of the poison, by means of emetics and purgatives, and the subsequent use of acidulous drinks.

**NARCOTICO-IRRITANTS.**—These are very closely allied in their effects to the last class, but have a more direct action on the spinal marrow and nerves, as shown by the more frequent occurrence of convulsions and paralysis. They differ much from each other in their action on the system; most of them, however, owing their properties to the presence of an alkaloidal principle. The most important are: digitalis, veratrum, conium, colchicum, lobelia, aconitum, belladonna, stramonium, tobacco, nux vomica, &c.

*Symptoms.*—These are various, but in general are vertigo, coma, delirium, paralysis, or convulsions, with disturbance and pain in the stomach and intestines. Those belonging to the nux vomica tribe have marked effects on the spinal marrow, causing tetanus and convulsions, but seldom coma or delirium; whilst, on the other hand, squill and foxglove produce symptoms of narcotism, preceded by vomiting, and other signs of irritant action on the stomach.

*Morbid Appearances.*—These, like the symptoms, are very various. In some cases, there is inflammation of the stomach and intestines; in others, this is wholly wanting. Where there have been symptoms of cerebral disturbance, traces of congestion of the brain are usually discernible, but are not found in every case.

*Tests.*—Most of these poisons, as before said, owe their deleterious powers to the presence of an alkaloidal principle, which is exceedingly difficult to detect by chemical tests; hence the strongest evidence is to be derived from an inspection of the fragments of the plant itself, if it has been administered in substance; but this mode of discrimination fails where the poison has been taken in the form of extract, infusion, or decoction. In such cases, the only reliance is on the symptoms and concomitant circumstances.

*Treatment.*—This consists in the prompt use of emetics, or the stomach-pump, followed by the administration of purgatives. No antidote can be relied upon; but, as

tannin decomposes these alkaloids, the free use of decoctions or infusions containing it may be resorted to with advantage.

**ZINC.**—This has no poisonous properties in a metallic state, but several of its salts possess active powers. Of these, the sulphate or white vitriol is the most common and most likely to occasion unpleasant symptoms.

*Symptoms.*—Pain in the abdomen, violent vomiting and diarrhoea, quick pulse, paleness and contraction of the features, coldness of the extremities. There is always a very austere taste in the mouth.

*Morbid Appearances.*—Marks of inflammation in the stomach and intestines.

*Tests.*—Ammonia gives a white precipitate, soluble in an excess of the alkali. Chromate of potassa affords an orange-red deposit, the chromate of zinc.

*Treatment.*—The free exhibition of warm water with milk. Infusions containing tannin. Where the poison has entered the bowels, emollient clysters are to be given.

### TABLE OF POISONS AND ANTIDOTES.

The following table, from Taylor "On Poisons," gives a succinct view of the most approved antidotes for the several poisons noticed in the foregoing pages:—

NON-METALLIC POISONS.		
	<i>Poisons.</i>	<i>Antidotes.</i>
Mineral Acids.	{ Sulphuric, Nitric, Muriatic, Nitro-Muriatic.	{ Magnesia mixed with water or milk; carbonate of lime; compound chalk powder; soda, potassa.
Vegetable Acids.	{ Oxalic, Tartaric.	{ Carbonate of lime.
Salts. - - -	{ Binoxalate of potassa.	Carbonate of lime. Sulphate of lime and water.
	{ Bitartrate of potassa.	Carbonate of soda in solution.
Alkalies. - -	{ Potassa, soda, ammonia, and their carbonates.	{ Vinegar, lemon juice, citric acid, oil.
Salts - - -	{ Baryta and its soluble salts.	Sulphate of soda, potassa, magnesia or lime.
	{ Carbonate of baryta.	Mixture of sulphate of magnesia and vinegar.
	{ Alum.	Carbonate of soda or ammonia.

### METALLIC POISONS.

Arsenic and soluble arsenites.	{ Hydrated oxide of iron; hydrated magnesia.
Corrosive sublimate and salts of mercury.	{ Mixture of oil and lime water.
Soluble salts of lead.	{ Albumen, gluten or flour, diffused in water.
Carbonate of lead.	The alkaline sulphates.
Soluble salts of copper.	Sulphate of magnesia and vinegar.
Tartar emetic.	{ Albumen, gluten, flour diffused in water; milk.
	{ Decoctions and tinctures containing tannin.
Chloride of antimony.	Magnesia.
Salts of tin.	Carbonate of soda; magnesia.
Sulphate or acetate of zinc.	Milk; carbonate of soda; magnesia.
Sulphate of iron.	Milk; carbonate of soda; magnesia.
Nitrate of silver.	Carbonate of soda or ammonia.
	Chloride of sodium.

## NARCOTIC POISONS.

Opium; hyoseyamus.

{ Emetics; stomach pump; cold affusion.  
 Strong decoction of coffee; electro-  
 magnetism.

Prussic acid.

Ammonia; chlorine; cold affusion.

## MODES OF DISTINGUISHING SOME OF THE VEGETABLE ALKALOIDS, WHEN IN POWDER.

Treat the powder with nitric acid; this is colored red by *Brucia*, *Delphia*, *Morphia*, and by the *Strychnia* of commerce, but not the pure. If the reddened acid becomes violet on the addition of protochloride of tin, it is *Brucia*; if it becomes black and carbonaceous, it is *Delphia*. If the powder is fusible without decomposition, and decomposes iodic acid, it is *Morphia*; if it is not fusible without decomposition, and does not decompose iodic acid, it is *Strychnia*. If the powder strikes a green with nitric acid, it is *Solania*; if insoluble in ether, and does not redden nitric acid, it is *Emetia*; if soluble in ether, does not redden nitric acid, but melts and volatilizes with heat, it is *Atropia*; if thus affected by ether or nitric acid, but does not volatilize, it is *Veratria*.





# INDEX

OF

## DISEASES AND THEIR REMEDIES.

---

- ABSCCESS. Lead oint., 317. Lead cataplasm, 317. Soap cataplasm, 362.
- ABSCCESS, MAMMARY. Liniment acet. lead, 314. Oint. iod. potass. and morphia, 323.
- ACIDITY OF STOMACH. Ammonia, 91. Lime water and milk, 135, 136. Prepared chalk, 136. Alkaline infusion cascarilla, 150. Milk and soda water, 261. Magnesia mixt., 269. Carbonate potass., 331. Alkaline tincture, rhubarb, 351. Purgative pastilles, 366. Carb. soda, 381. Lozenges, soda, 382.
- ACNE. Wash of benzoin, 129. Oint. subacetate lead, 315. Compound powder sulphur, 393.
- AMAUROSIS. Ammoniac mixture, 98. Anemone, 102. Comp. powder sulphate mercury, 245. Pills strychnia, 390. Collyrium and liniment strychnia, 390. Powder white hellebore, 408.
- AMENORRHOEA. Hiera piera, 82, and other preparations of aloes. Injection ammonia, 91. Muriate ammonia, 95. De Haen's pills, 97. Iodide calcium, 135. Cantharides and savine, 141. Infusion dittany, 185. Metallic iron, 200. Bolus metallic iron, 200. Ammoniated iron, 201. Ointment bromide iron, 202. Pills carbonate iron, 203. Mixture chloride iron, 204. Lozenges iodide iron, 206. Ointment iodide iron, 208. Black oxide iron, 211. Phosphate iron, 212. Sulphate iron, 211. Hooper's pills, 211. Compound galbanum pills, 217. Compound infusion gentian, 220. Compound tincture guaiacum, 227. Ammoniated tincture guaiacum, 228. Infusion pennyroyal, 229. Bacher's pills, 230. Tincture black hellebore, 230. Compound pills iodide mercury, 242. Saturated tincture iodine, 251. Clyster iodine, 252. Muriate manganese, 273. Horehound, 274. Myrrh and sulphate iron, 286. Tincture myrrh and hellebore, 287. Madder, 354. Decoction madder, 354. Savine and ginger, 356. Savine pills, 356. Oil savine, 357. Compound infusion senna, 372. Mixture of borax, 381.
- ANASARCA. Calomel and squill, 240. Cremor tartar, 338. Mixture dandelion, 398.
- ANÆSTHETIC REMEDIES. Sulphuric ether, 80. Chloroform, 159.
- ANGINA PECTORIS. Assafetida and musk, 117.
- ANGINA SYPHILITIC. Mercurial gargle, 233.
- APHONIA. Decoction arnica, 113.
- APHTHÆ. Decoction wild indigo, 124. Decoction barberry, 129. New Jersey tea, 154. Chlorine, 158. Infusion goldthread, 179. Collutory creasote, 182. Soot mouth wash, 216. Collutory rhatany, 260. Mixture carbonate potass., 333. Lozenges borax, 380. Collutory borax, 380. Honey borax, 380.
- ARSENIC, POISONING BY. Hydrated oxide of iron, 209.
- ASCARIDES. Suppository aloes, 84. Injection aloes, 85. Clyster Southern wood, 114. Assafetida and iron, 117. Clyster assafetida, 118. Clyster camphor, 140. Compound tincture tartrate of iron, 213. Mixture senna, 355. Infusion tansy, 397.

- ASCITES.** Electuary Per. bark and iron, 164. Pill foxglove, 196. Foxglove and tartaric acid, 191. Elaterium mixture, 194. Gamboge mixture, 219. Cremor tartar, 338. Mixture dandelion, 398.
- ASTHMA.** Ammoniac pill, 97. Ammoniac mixture, 98. Assafetida mixture, 117. Benzoin, 128. Catalpa, 152. Tincture larkspur, 189. Pill foxglove, 193. Galbanum mixture, 217. Henbane and squill, 249. Mixture elecampane, 250. Oxymel elecampane, 251. Ipecacuanha and carbonate potass., 253. Ipecacuanha and nitre, 253. Ipecacuanha and foxglove, 254. Tincture lobelia, 268. Opium and foxglove, 296. Opium and castor, 297. Solution cyanide potass., 320. Scillitic acetate potass., 329. Mixture extract elder berries, 359. Squill and ammoniac, 367. Compound tincture squill and benzoin, 369. Compound stramonium pills, 388.
- ATROPHY.** Mixture eggs, 305.
- BED SORES.** Alum liniment, 89. Mixture of tincture camphor, 140. Carbonate lead ointment, 316. Liniment and ointment tannate of lead, 318.
- BLADDER, DISEASES OF.** Emulsion cantharides, 142. Buchu, 192. Pareira brava, 306. Paullinia, 307. Mixture carbonate soda and copaiba, 382. Compound powder uva ursi, 404.
- BONES, PAINS OF.** Decoction mezereon, 278. Tincture acetate strychnia, 391.
- BRONCHITIS.** Anisated ammoniated alcohol, 94. Nitrate of silver, 111. Indian turnip, 115. Iodide calcium, 135. Creasote pills, 181. Monesia, 279. Linctus opium, 299.
- BUBO.** Mercurial plaster, 235. Anodyne ointment, 299. Plaster acetate lead, 314. Lead ointment, 317. Lead cataplasm, 317.
- BURNS, SCALDS.** Ointment wild indigo, 124. Lotion benzoin, 129. Solution chlorinated lime, 134. Lime water and oil, 135. Compound creasote ointment, 182. Carded cotton, 224. Cerate cherry laurel, 264. Liniment flaxseed, 267. Kentish's ointment, 293. Liniment eggs, 305. Basilicon ointment, 348.
- CALCULOUS AFFECTIONS.** Draught muriatic acid, 74. Phosphate of ammonia, 96. Lime water and carbonate potass., 135. Wild potato, 177. Mixture Prussian blue, 206. Nitrate of iron, 209. Magnesia and gentian, 270. Solution nitrosaccharate lead, 318. Solution caustic potass., 329. Mixture bicarbonate potass., 334. Pills carbonate soda, 381. Lozenges carbonate soda, 381. Injection carbonate soda, 382. Uva ursi, 404.
- CALCULI, BILIARY.** Turpentine and ether, 293.
- CANCER.** Arsenical powder, 69. Solution of arsenic, 69. Injection alum, 89. Acetate ammonia, 92. Iodide arsenic, 113. Chloride gold, 121. Chloride barium, 125. Compound pills belladonna, 127. Extract marigold, 137. Ointment marigold, 138. Carrot ointment, 148. Infusion hemlock, 175. Cataplasm hemlock, 178. Arseniate of iron, 201. Pills red oxide iron, 212. Compound soot ointment, 216. Hop ointment, 232. Infusion cherry laurel, 264. Ointment cherry laurel, 264. Ointment turpentine, 269. Ointment carbonate lead, 316. Ointment chloride lead, 316. Lotion chloride lead, 316. Ointment iodide potass. and opium, 323. Solution chloride soda, 383. Chloride zinc, 412.
- CANCERUM ORIS.** Pyroligneous acid, 69. Solution chloride potass., 334.
- CARDIALGIA.** Oil of wormwood, 64. Mixture boracic acid, 70. Acetic ether, 79. Ammonia, 91. Lime water and potass., 136. Pills gentian and ammonia, 220. Magnesia mixture, 269. Nux vomica, 288. Rhubarb and chalk, 348. Carbonate soda and rhubarb, 381.
- CARIES.** Phosphoric acid, 75. Creasote ointment, 182.
- CATARACT.** Anemone, 102.
- CATARRH.** Gum mixture, lozenges, &c., 66. Mixture benzoic acid, 70. Garlic, 81. Ammoniated anisated alcohol, 94. Ammoniac mixture, 98. Ammoniac and nitric



- acid, 98. Almond emulsion, 101. Starch lozenges, 102. Lozenges kermes mineral, 106. Syrup kermes mineral, 106. Catechu and liquorice, 152. Powder spermaceti, 155. Spermaeeti mixture, 155. Mixture bittersweet, 194. Prepared liquorice, 224. Mixture henbane, 249. Compound pills elecampane, 250. Mixture elecampane, 250. Compound oxymel elecampane, 251. Ipecacuanha lozenges, 254. Lozenges ipecacuanha and camphor, 254. Lozenges lactucarium, 263. Horehound syrup and eandy, 273. Pectoral hydromel, 276. Mixture balsam Peru, 285. Myrrh and squills, 286. Solution eyanide potass., 320. Nitrate potass. and orris root, 335. Syrup red poppies, 352. Squill and ipecacuanha, 367. Seneka and prep., 371-2. Sulphur and liquorice, 393. Sulphur and orris root, 393. Turpentine and myrrh, 399. Emulsion balsam tolu, 401. Mixture tolu and morphia, 401.
- CEPHALALGIA. Asarabacca, 115. Ward's essence, 140. Liniment oil amber, 392.
- CEREBRAL AFFECTIONS. Clyster tartar emetic, 108. Cataplasm horseradish, 112. Clyster colocynth, 173. Infusion galium, 218. Mixture borotartrate potass., 331. Clyster common salt and arnica, 379.
- CHANCER. Syrup gold, 120. Ointment gold, 120. Creasote lotion, 182. Mercurial lotion, 233. Mercurial liniment, 235. Black wash, 244.
- CHAPS. Glycerin, 233. Anodyne ointment, 299. Liniment carbonate potass., 332. Cold cream, 352. Ointment elder leaves, 359. Camphor soap, 360.
- CHILBLAINS. Muriatic acid lotion, 74. Sulphuric acid liniment, 76. Alum ointment, 90. Solution chloride lime, 134. Camphor ointment, 140. Compound ointment creasote, 183. Ointment henbane, 249. Lotion iodine, 251. Liniment balsam Peru, 285. Turpentine lotion, 292. Embrocation petroleum, 307. Soap iodide potass., 323. Lotion carbonate potass., 332. Liniment pellitory, 340. Rose oil, 352. Mustard liniment, 378. Borax ointment, 381.
- CHLOROSIS. Pills aloes and iron, 82. De Haen's pills, 97. Metallic iron, 200. Compound powder metallic iron, 200. Pills metallic iron, 200. Bolus ammoniated iron, 201. Pills carbonate iron, 203. Tincture chloride iron, 204. Bath iodide iron, 208. Black oxide iron, 210. Electuary black oxide iron, 210. Sulphate iron, 211. Bland's pills, 211. Syrup sulphate iron, 212. Tartrate of iron and potass., 212. Tannate iron, 213. Compound galbanum pills, 217. Oxide manganese, 273. Chocolate with paullinia, 307. Compound rhubarb pills, 349. Decoction madder, 354. Compound powder valerian, 405.
- CHOLERA. Mixture nitric acid, 74. Liniment nitric acid, 74. Compound bismuth powder, 130. Camphor powder, 138. Extract hemp, 141. Infusion logwood, 228. Sugar milk draught, 261. Opium and acetate lead, 297. Compound pill acetate lead, 314. Mixture bicarbonate potass., 334. Compound powder ehloride potass., 334. Plaster sulphate quinine, 347.
- CHOLERA INFANTUM. Milk and suet, 261. Acetate lead, 313. Infusion Benne, 377.
- CHOREA. Ammoniated copper, 186. Carbonate iron, 202. Mixture Dippel's animal oil, 289. Mixture eyanide potass., 320. Oxide zinc, 410. Ethereal tincture chloride zinc, 411.
- COLIC. Alkaline tincture wormwood, 64. Aniseed, 103. Dewees' carminative, 118, 270. Clyster assafetida, 118. Infusion caraway, 148. Embrocation caraway, 149. Clove plaster, 149. Infusion eatnep, 152. Infusion cinnamon, 167. Infusion fennel, 215. Oil pennyroyal, 229. Oil laurel, 267. Mace, 269. Dalby's carminative, 270. Plaster opium and camphor, 298. Opium liniment, 303. Cataplasm black pepper, 310. Emulsion carbonate potass., 332. Tinct. rhubarb and gentian, 350. Compound sagapenum pills, 357. Terebinthinate balsam sulphur, 394. Infusion tobacco, 396. Clyster turpentine, 399. Turpentine mixture, 400.
- COLICA PICTONUM. Sulphuretted water, 73. Sulphuric acid lemonade, 76. Alum julep, 89. Alum mixture, 90. Liniment belladonna, 128. Opium and sulphur, 296. Opium and cinnamon water, 300.

- CONDYLOMATA.** Lotion corrosive sublimate and camphor, 238. Red oxide mercury, 244.
- CONSTIPATION.** Acetic acid clyster, 68. Preparations aloes, 82. Assafetida and aloes, 82. Pills elaterium, 194. Extract butternut, 257. Compound pills buckbean, 278. Compound rhubarb pills, 349. Rhubarb and ox gall, 349. Compound solution sulphate of soda, 384. Rochelle salts, 385. Compound powder sulphur, 393. Clyster turpentine, 399.
- CONTUSIONS.** Sulph. acid and alcohol, 76. Lotion sal ammoniac, 95. Liniment sal ammoniac, 95. Arnica and rue, 113. Lotion sulphate copper, 188. Cataplasm hops, 232. Arquebuse water, 298. Compound spirit nutmeg, 285. Fomentation carbonate potass., 332. Lotion nitrate potass., 336. Wine of roses, 353. Aromatic fomentation, 353. Aromatic vinegar, 353. Fomentation common salt, 378. Turpentine liniment, 399.
- CONVULSIONS.** Garlic, 81. Assafetida mixture, 117. Musk clyster, 284.
- CORNEA, AFFECTIONS OF.** Anemone, 102. Ointment cyanide silver, 110. Ointment iodide silver, 111. Ointment sulphate cadmium, 133. Powder calomel and sugar, 239. Compound oint. cod liver oil, 290. Collyrium caustic potass., 329. Collyrium carbonate potass., 332.
- CORNS.** Plaster ammonia, 91. Verdigris ointment, 186. Verdigris plaster, 186. Lotion iodine, 251.
- CORROSIVE SUBLIMATE, ANTIDOTE.** Powder gold and iron, 120.
- CORYZA.** Lozenges cubebs, 184. Injection opium, 297.
- COUGH.** Mixture gum Arabic, 65. Almond emulsion, 100. Green linetus, 100. White linetus, 101. Antimonial wine and ammoniac, 109. Assafetida and squill, 117. Camphorated cough mixture, 141. Tincture cochineal, 169. Mixture quince seeds, 189. Barley sugar, 231. Lactucarium, 262. Brown cough mixture, 303. Opiate linetus, 303. Pectoral syrup, 306. Mixture oil amber, 392. Mixture tolu and belladonna, 401. Oxide zinc, 410.
- CRAMP IN THE STOMACH.** Ammoniated tincture of castor, 151. Ferrocyanide zinc, 412.
- CROUP.** Sulphuretted syrup, 95. Sulphate copper, 187. Syrup sulphuret potass., 327. Compound syrup sulphuret potass., 327. Mixture sulphuret potass., 328. Compound syrup squill, 368. Oxymel squill and valerian, 369. Mixture seneka, 372. Cataplasm tobacco, 396.
- CUTANEOUS DISEASES.** Hydrosulphuretted bath, 72. Muratic acid bath, 74. Lotion alum, 89. Arseniate ammonia, 92. Hydriodate ammonia, 94. Sulphuretted hydrosulphate ammonia, 95. Sulphuret antimony, 105. Lotion tartar emetic, 108. Iodide arsenic, 113. Donovan's solution, 114. Chloride barium, 123. Solution bromine, 130. Lime ointment, 136. Anthracokali, 146. Ointment iodide carbon, 147. Creasote ointment, 182. Decoction bittersweet, 193. Extract bittersweet, 194. Mixture soot, 216. Fuligokali, 216. Decoction guaiacum, 226. Guaiacum and sulphur, 227. Compound mercurial powder, 233. Solution acetate mercury, 236. Ointment white precipitate, 236. Bateman's lotion, 238. Plummer's pill, 240. Calomel ointment, 241. Ointment red iodide mercury, 243. Ointment nitrate mercury, 243. Ointment sulphate mercury, 246. Black sulphuret mercury, 246. Red sulphuret mercury, 246. Muratic manganese, 273. Compound decoction mezereum, 279. Cod liver oil, 290. Phosphorated cerate, 309. Pills Burgundy pitch, 312. Tar water, 312. Lotion cyanide potass., 321. Ointment iodide potassa and mercury, 323. Ioduretted water, 323. Sulphuret potassa, 326. Lotion sulphuret potass., 329. Barlow's lotion, 327. Mixture sulphuret potass., 328. Aromatic bath, 353. Extract elder berries, 359. Sarsaparilla, 362-5. Ointment bromide soda, 379. Sulphuret soda, 379. Arseniate soda, 380. Soda and ippecacuanha, 381. Ointment carbonate soda, 382. Hydrosulphate soda, 383. Compound pills sulphuret soda, 384. Lotion sulphuret soda, 385. Sulphur and eremor tartar, 393. Poison oak, 402. Decoction elm bark, 403. Decoction white hellebore, 408. Iodide zinc, 412.

DEAFNESS. Cayenne pepper lozenges, 145. Acoustic balsam, 285. Injection caustic potass., 329.

DEBILITY. Preparations cacao, 132. Camphor mixture, 139. Hartshorn jelly, 180. Preparations iron, 200. Barley meal, 231. Clyster eggs, 305. Mixture eggs, Chocolate and Paullinia, 306.

DELIRIUM TREMENS. Opium and musk, 296. Laudanum and tartar. emetic, 304.

DIABETES. Phosphoric acid, 75. Hydrosulphate ammonia, 94. Compound pill ammoniated copper, 187. Compound pills kino, 259. Pills acetate morphia, 281. Carbonate potass. and ammonia, 334. Sulphur mixture, 394.

DIARRHŒA. Tannic acid, 76. Acetate alumine, 87. Alum, 87-8. Angustura, 103. Mixture chamomile, 104. Antimonial wine and laudanum, 109. Arnica, 112. Dewees' carminative, 118, 270. Clyster bistort., 130. Compound powder chalk, 136. Lozenges chalk, 136. Chalk mixture, 137. Camphor water and laudanum, 139. Camphor water and nitric acid, 139. Compound cascarilla powder, 150. Catechu, 152. Chlorine clyster, 159. Peruvian bark and rhatany, 163. Electuary Peruvian bark, 164. Infusion columbo and ginger, 174. Columbo and cascarilla, 174. Creasote mixture, 182. Sulphate copper, 187. Electuary sulphate copper, 188. Wine persimmons, 193. Infusion black purslane, 195. Mixture ammoniated iron, 201. Persesquinitrate iron, 209. Compound infusion galls, 218. Syrup galls, 218. Geranium, 222. Decoction pomegranate rind, 225. Infusion logwood, 228. Electuary logwood, 228. Compound powder kino, 258. Electuary kino, 259. Compound powder rhatany, 259. Monesia, 279. Injection acetate morphia, 281. Opium and chalk, 296. Roasted opium, 296. Plaster opium and camphor, 298. Mixture wine of opium, 301. Sedative mixture, 306. Bolus allspice, 309. Acetate lead, 313. Acetate lead mixture, 315. Decoction oak bark, 342. Confection acorns, 342. Roasted rhubarb, 348. Rhubarb mixture, 357. Confection dog rose, 352. Electuary roses, 353. Decoction blackberry root, 354. Infusion benne, 377. Hardhack, 386. Compound turpentine plaster, 400. Tormentil, 401. Infusion slippery elm, 403.

DISINFECTION. Prophylactic vinegar, 68. Gaseous muriatic acid, 73. Chloride of lime, 134. Chlorine, 158. Solution chloride potass., 320. Solution chloride soda, 383.

DROPSY. Indian hemp, 109. Infusion horseradish, 112. Compound spirit horseradish, 112. Decoction asparagus, 116. Extract asparagus, 116. Chloride gold and soda, 121. Hairy horehound, 124. Wine bryony, 131. Camphorated ethereal tincture cantharides, 143. Vinegar cayenne pepper, 145. Infusion carrot seeds, 148. Celandine, 157. Pipsisewa, 157. Black snakeroot, 160. Vinegar colchicum, 171. Colchicum and squill, 172. Horsebalm, 172. Colocynth, 172. Powdered foxglove, 190. Pills foxglove, 191. Infusion foxglove, 191. Elaterium, 194. Canada fleabane, 197. Gamboge, 219. Black hellebore, 229. Bacher's pills, 230. Compound wine black hellebore, 230. Jalap and cremor tartar, 256. Compound powder jalap, 256. Compound infusion juniper, 257. Preparations juniper, 257. Mustard whey, 261. Aromatic tincture lettuce, 263. Starkey's soap, 293, 360. Embrocation petroleum, 307. Mixture petroleum, 308. Infusion parsley root, 308. Solution hydriodate potass., 325. Scillitic acetate potass., 329. Liquid acetate potass., 330. Mixture acetate potass., 330. Borotartrate potass., 331. Nitrate potass. and squill, 335. Mixture nitrate potass., 336. Cremor tartar, 338. Tartrate potass. and ammonia, 339. Decoction elder bark, 359. Confection scammony, 366. Squill, 366-71. Squill and nitrate potass., 367. Squill and cremor tartar, 367. Infusion and decoction broom, 371. Acetate soda, 379. Solution carbonate soda, 382. Pills tobacco, 396. Wine tobacco, 396. Decoction dandelion, 398. Extract dandelion, 398. Electuary turpentine, 399. Veratria, 407.

DROPSY, OVARIAN. Ointment iodine and mercury, 252. Solution iodide potass., 321.

DYSENTERY. Mixture nitric acid, 74. Starch jelly, 102. Starch and suet, 102. Angustura, 103. Clyster bistort., 130. Camphor water and laudanum, 139.



- Camphor water and nitric acid, 139. Electuary catechu, 183. Infusion black purslane, 198. Mixture extract logwood, 225. Calomel and opium, 239. Decoction ipecacuanha, 254. Mixture ipecacuanha, 254. Emulsion jalap, 257. Electuary kino, 259. Mixture rhatany, 260. Milk and suet, 261. Mixture cherry laurel, 264. Injection morphia, 280. Nux vomica, 288. Mixture nux vomica and aloes, 289. Oleaginous mixture, 291. Opium and acetate lead, 297. Opiate, 298. Plaster opium and camphor, 298. Opium and syrup poppies, 300. Confection dogrose, 352. Syrup blackberries, 355. Compound powder sulphur, 393. Infusion slippery-elm, 403. Compound pills sulphate zinc, 414.
- DYSMENORRHEA.** Infusion Southern wood, 114. Compound pills ergot, 197. Clyster iodine, 252.
- DYSPEPSIA.** Wormwood, 64. Aloes pills, 82-84. Aniseed, 103. Orange peel and rhubarb, 119. Cayenne pepper pills, 145. Infusion cinnamon, 167. Powder coriander, 180. Pill prepared metallic iron, 200. Mixture malate iron, 209. Nitrate iron, 209. Mixture soot, 216. Infusion gentian and rhubarb, 221. Mixture gentian and sulphuric acid, 221. Masterwort, 231. Infusion hops, 232. Mercury, chalk, and ipecacuanha, 233. Bolus ipecacuanha, 253. Ipecacuanha and centaury, 254. Rice jelly, 305. Solution hydrargyro-iodide potass., 325. Sulphate potass. and rhubarb, 337. Rhubarb pills, 349. Soda and rhubarb, 381. Mixture carbonate soda and quassia, 382. Compound turpentine plaster, 400. Oxide zinc and columbo, 410.
- DYSPNEA.** Opium and castor, 297.
- DYSURIA.** Benzoic acid and copaiba, 70. Tartar emetic and phosphate lime, 107. Infusion fleabane, 197. Pills nitrate potass., 335. Mixture tobacco, 396.
- EAR, AFFECTIONS OF.** Injection morphia, 280. Acoustic balsam, 285. Antiseptic mixture, 299. Opium liniment, 303.
- ECCHYMOSES.** Juniper liniment, 258. Lotion nitrate potass., 336.
- ELEPHANTIASIS.** Mudar, 138.
- ENLARGEMENTS, GLANDULAR.** Ointment animal charcoal, 146.
- ENGORGEMENTS, VISCERAL.** Pills black oxide iron, 212. Electuary black oxide iron, 212. Calomel and dandelion, 240. Calomel and squill, 240. Sulphate mercury, 246. Compound powder rhubarb, 348. Tartrate soda and rhubarb, 385. Mixture tartrate soda, 385. Tartrate soda whey, 385. Compound infusion dandelion, 398.
- EPILEPSY.** Nitrate silver, 111. Belladonna, 126. Oil box, 131. Electuary Peruvian bark, 164. Muriate copper, 186. Ammoniated copper, 186. Ammoniated copper and belladonna, 187. Compound pills sulphate copper, 188. Ammoniated iron, 201. Prussian blue, 205. Wine galium, 218. Masterwort, 231. Calomel and opium, 241. Indigo, 250. Opium and nitrate silver, 297. Tincture opium and asarabacca, 302. Phosphuretted oil, 308. Mixture biniodide potass., 324. Compound powder valerian, 404. Oxide zinc, 410. Compound pills oxide zinc, 410. Ethereal tincture chloride zinc, 411. Compound pills sulphate zinc, 414.
- EPISTAXIS.** Alum, 88-9. Sulphate copper styptic, 188. Injection sulphate iron, 211.
- EXCORIATION.** Cold cream, 155, 352. Carbonate lead ointment, 316. Plaster carbonate lead, 316. Ointment tannate lead, 318. Rose oil, 352. Camphor soap, 360. Ointment oxide zinc, 411. Cerate carbonate zinc, 413.
- EXANTHEMATA.** Compound mercurial powder, 233. Sulphuret magnesia, 272. Mixture Virginia snakeroot and allspice, 376. Compound infusion elm bark, 403.
- EYE, AFFECTIONS OF.** Atropia, 118. Camphor ointment, 140. Camphor collyrium, 141.
- FACE, ERUPTIONS ON, BLOTCHES, &c.** Wash sal ammoniac, 96. Almond paste,

98. Almond powder, 99. Compound almond lotion, 99. Milk roses, 99, 100, 129. Goulard's lotion, 100. Cosmetic liniment, 101. Water anemone, 102. Wash of benzoin, 129. Emulsion benzoin, 129. Spermaceti liniment, 155. Sultana ointment, 155. Emulsion corrosive sublimate, 237. Cosmetic wash, 238. Lotion carbonate potass., 332. Beef marrow soap, 360. Aromatic soap, 360. Cosmetic soap powder, 361. Essence of soap, 361.
- FAINTING.** Aromatic vinegar, 68. Aromatic carbonate of ammonia, 92.
- FEVER.** Vinegar mixture, 67. Syrup vinegar, 67. Acetate ammonia, 91. Citrate ammonia, 94. Nitrate ammonia, 96. Tartar emetic, 107. Mixture extract centaury, 154. Boneset, 198. Compound powder ammoniated iron, 201. Mixture avens, 223. Calomel and jalap, 239. Calomel and nitrate potass., 239. Ipecacuanha and tragacanth, 283. Infusion malt, 272. Citrate potass., 324. Nitrate potass., 335. Nitrous powders, 335. Mixture nitrate potass., 336. Mixture sulphate potass., 337.
- FEVER, HECTIC.** Compound infusion boneset, 198. Gælis' powder, 284. Compound powder sulphate quinine, 345. Compound infusion sage, 359.
- FEVER, INTERMITTENT.** Pills arsenic and opium, 70. Lockstadt's pills, 101. Golden sulphuret antimony, 106. Tartar emetic and quinine, 107. Electuary orange peel, 119. Bebeerine, 126. Camphor water and ether, 139. Cetrarine, 156. Preparations Peruvian bark, 160-66. Cinchonia, 166. Decoction coffee, 170. Dogwood, 180. Pills sulphate copper, 187. Sulphate copper and opium, 188. Persimmon, 193. Compound powder Prussian blue, 205. Horse chestnut, 247. Tulip tree bark, 267. Magnolia, 272. Narectina, 288. Phloridzine, 308. Phosphorated oil turpentine, 309. Piperine, 311. Mixture acetate potass., 330. Arsenical solution, 330. Arseniate potass., 330. Mixture citrate potass. and bark, 335. Oxalate potass., 336. Quassia, 341. Oak bark, 341. Quinine and salts, 242-47. Salicine, 358. Willow bark, 358. Virginia snakeroot, 376. Common salt and lemon juice, 319. Arseniate soda, 380. Solution chloride soda, 383.
- FEVER, TYPHUS.** Carbonate ammonia, 93. Wild indigo, 124. Clyster camphor, 140. Liniment cantharides, 143. Tincture cayenne pepper, 145. Musk mixture, 283. Turpentine mixture, 292. Laudanum and tartar emetic, 303. Egg and brandy mixture, 305. Egg and wine mixture, 305. Mixture Virginia snakeroot and allspice, 376. Wine Virginia snakeroot and vanilla, 376. Tincture Virginia snakeroot and balsam Peru, 376. Mustard whey, 377.
- FISSURES, ANUS.** Ointment acetate lead, 314.
- FISTULÆ.** Injections copaliba, 178. Injection corrosive sublimate, 238. Injection myrrh, 287. Injection iodide potass., 321. Injection iodine, 324. Compound lotion iodide potass., 324.
- FLATULENCE.** Ammoniated alcohol, 94. Tincture angelica, 103. Aniseed, 103. Chamomile pills, 104. Tincture assafetida and soot, 118. Assafetida plaster, 118. Elixir orange peel, 119. Tincture benzoin, 129. Calamus, 133. Aromatic powder and confection, 147. Compound tincture cardamom, 148. Spirit caraway, 149. Preparations cloves, 149. Cinnamon, 167. Coriander, 180. Magnesia and camphor, 270. Peppermint, 277. Nutmeg, 284. Confection opium, 298. Water allspice, 309. Electuary black pepper, 310. Compound tincture saffras, 361. Purgative pastilles, 366. Mixture carbonate soda and gentian, 382. Compound turpentine plaster, 400. Ginger, 415.
- FÆTOR ORIS.** Mixture nitric acid, 94. Alum, 88. Lozenges chloride of lime, 134. Charcoal lozenges, 146. Lozenges catechu, 153. Pastilles catechu, 153.
- FROST, EFFECTS OF.** Rust's ointment, 90. Oil elaterium, 195. Compound ointment henbane, 249. Embrocation petroleum, 307.
- FUNGOUS FLESH.** Burnt alum, 87. Chloride antimony, 105. Lotion orpiment, 114. Verdigris and savine, 185. Verdigris ointment, 186.
- GANGLIONIC SYSTEM, DISEASES OF.** Pills Prussian blue, 206.

- GANGRENE.** Compound camphor pills, 138. Peruvian bark and arnica, 161. Cataplasma Peruvian bark, 166. Anodyne ointment, 299. Cataplasma oak bark, 342.
- GASTRALGIA.** Mixture aconite, 78. Subnitrate bismuth, 129. Syrup codeia, 169.
- GASTRODYNIA.** Oxide silver, 111. Compound bismuth powder, 129. Compound tincture cinnamon, 168. Oil of ergot, 197. Mercurial mixture, 274.
- GLANDS ENLARGED.** Plaster ammoniac with mercury, 98. Cataplasma bryony, 131. Ointment chloride lime, 134. Animal charcoal, 145. Hemlock and dandelion, 175. Plaster foxglove, 191. Ointment iodide iron, 208. Compound galbanum plaster, 217. Compound mercurial liniment, 235. Ointment iodide mercury, 243. Red sulphuret mercury, 246. Liniment henbane, 249. Ethereal tincture iodine, 251. Mixture iodine and iodide potass., 231. Sulphuret potass., 326. Compound plaster sulphuret potass., 328. Burnt sponge, 387.
- GLEET.** Tannic acid, 76. Tincture cantharides and guaiacum, 142. Cubebs and ergot, 183. Compound powder ergot, 196. Pills guaiacum and turpentine, 227, 399. Injection chloride zinc, 411.
- GLOTTIS, SPASM OF.** Cataplasma tobacco, 396.
- GOITRE.** Solution chloride calcium, 133. Animal charcoal, 145. Iodine ointment, 252. Cataplasma iodine, 252. Iodide potass., 321. Ointment iodide potass., 322. Liniment iodide potass., 323. Sulphuret potass., 326. Burnt sponge, 387.
- GONORRHOEA.** Alumine, 87. Alum, 89. Nitrate silver, 112. Assafetida and opium, 117. Oil box, 131. Pills chloride calcium, 134. Emulsion hemp, 141. Compound bolus catechu, 152. Electuary catechu, 153. Wine Peruvian bark and calamus, 166. Copaiba and its preparations, 177-8. Cubebs, 183-4. Injection ammoniated copper, 187. Injection sulphate copper, 188. Compound powder ammoniated iron, 201. Injection iodide iron, 208. Pills sulphate iron, 211. Tincture galls, 218. Oil guaiacum, 227. Injection corrosive sublimate, 238. Calomel and catechu, 240. Saturated tincture iodine, 251. Injection opium, 299. Sedative injection, 306. Oil parsley, 308. Acetate lead mixture, 315. Injection sulphuret potass., 327. Injection caustic potass., 329. Pills nitrate potass. and camphor, 335. Nitrated emulsion, 336. Starkey's soap, 360. Turpentine and rhubarb, 399. Turpentine mixture, 400. Injection acetate zinc, 413. Fomentation sulphate zinc, 414. Injection sulphate zinc, 414.
- GOUT.** Aconite, 77. Ammoniacal liniment, 91. Carbonate ammonia, 93. Phosphate ammonia, 96. Ammoniacal succinic acid, 97. Golden sulphuret antimony, 106. Sulphuret calcium, 135. Camphorated ether, 140. Portland powder, 154. Pills pipsissewa, 158. Colchicum, 170, 171. Wine hedge hyssop, 226. Pills guaiacum and sulphur, 227. Ammoniacal tincture guaiacum, 228. Magnesia and colchicum, 270. Confection opium, 298. Phosphorated oil, 308. Mixture caustic potass., 329. Solution silicate potass., 337. Warner's cordial, 350-1. Extract elder berries, 359. Pills soap and ox gall, 361. Conserve broom, 369. Compound tincture senna, 374. Liniment sulphuret carbon, 395. Turpentine mixture, 400. Veratria, 407. Wine white hellebore, 418.
- GRAVEL.** Mixture Prussian blue, 206. Carbonate potass. and ammonia, 334.
- GUMS, AFFECTIONS OF.** Boracic acid, 70. Alumine, 87. Electuary alum, 88. Gargle alum, 89. Collutory catechu, 153. Collutory creasote, 182. Gargle sulphate zinc, 414.
- HEADACHE.** Mixture vinegar and cardamom, 67. Lotion ammonia, 91. Carbonate ammonia, 93. Vicat's mixture, 94. Ward's essence, 140. Castor plaster, 151. Sneezewort, 229. Mixture valerian and ammonia, 405. Valerianate zinc, 415.
- HEMATEMESIS.** Pills acetate lead, 313.
- HEMOPTYSIS.** Powder starch, 101. Carrageen mixture, 160. Electuary Peruvian bark and catechu, 164. Creasote mixture, 181. Bolus foxglove, 190. Mixture tincture foxglove, 191. Sedative mixture, 311. Compound pills acetate lead, 314. Tolu mixture, 401. Mixture uva ursi, 404.



- HEMORRHAGES.** Alum, 87, 88. Alum whey, 89. Bistort, 130. Alum and catechu, 152. Sulphate copper, 187. Compound powder ergot, 196. Extract ergot, 197. Chloride iron and acetate lead, 204. Tincture chloride iron, 204. Solution sulphate iron, 211. Compound powder galls, 218. Avena, 222. Compound powder kino, 259. Mixture rhatany, 260. Alum whey, 261. Matico, 275. Roasted opium, 296. Opium and acetate lead, 313. Compound pills acetate lead, 314. Acetate lead, 313. Mixture bistort, 319. Powder sulphate soda and opium, 384.
- HEMORRHOIDS.** Aloetic mixture, 85. Alum ointment, 90. Lime ointment, 136. Charcoal suppository, 146. Extract Peruvian bark, 166. Hemlock oil, 176. Suppository hemlock, 176. Saffron ointment, 183. Oil elaterium, 195. Ointment galls, 219. Compound gall ointment, 219. Witch hazel, 229. Ointment mercury and belladonna, 235. Ointment red oxide mercury and tin, 245. Ointment henbane, 249. Electuary jalap, 256. Ointment matico, 276. Injection morphia, 280. Anodyne ointment, 299. Ointment opium and tar, 299. Laudanum ointment, 303. Confection black pepper, 310. Ward's paste, 310. Pile ointment, 314. Lead ointment, 317. Mixture tartrate potass., 338. Mixture bitartrate potass., 339. Ointment figwort, 371. Electuary senna and sulphur, 373. Ointment tin, 387. Ointment stramonium, 389. Sulphur electuary, 393. Fomentation sulphate zinc, 414.
- HAIR, LOSS OF, &c.** Garlic, 81. Almond cream, 100. Macassar oil, 101. Fixature, 101, 292. Hair dye, 111. Compound tincture cantharides, 142. Pomatum cantharides, 144. Shampoo liquid, 144. Pomatum Peruvian bark, 165. Bandonline, 189. Lotion galls, 218. Compound ointment balsam Peru, 286.
- HAIR, TO REMOVE.** Orpiment and Powder orpiment, 114.
- HEART, AFFECTIONS OF.** Syrup asparagus, 116. Bromine, 130. Foxglove and acetate lead, 191. Digitalin, 192. Mixture iodide potass., 322.
- HEMICRANIA.** Compound powder valerian, 405. Electuary valerian, 405.
- HEMIPLEGIA.** Pills poison oak, 402.
- HEPATITIS.** Mixture nitric acid, 74. Bath nitromuriatic acid, 75. Compound mercurial pill, 234. Chlorate potass., 334. Dandelion, 398.
- HERNIA.** Clyster belladonna, 128. Infusion tobacco, 396.
- HERPES.** Chlorine liniment, 159. Arseniate iron, 201. Ointment carburet iron, 204. Decoction soot, 215. Ointment black bellebore, 230. Liniment acetate mercury, 236. Compound calomel pill, 240. Calomel ointment, 241. Ointment red oxide mercury and lead, 245. Ointment sulphate mercury, 246. Red sulphuret mercury, 247. Ointment red sulphuret mercury, 247. Lotion sulphuret potass., 327.
- HICCUGH.** Ammoniated alcohol, 94. Assafetida, 111.
- HOOPING-COUGH.** Succinated ammonia, 96. Extract anemone, 102. Kermes' mineral, 106. Antimonial wine and bittersweet, 109. Assafetida mixture, 117. Assafetida and tolu, 117. Assafetida plaster, 118. Belladonna, 126-7. Fumigating powder, 128. Emulsion cantharides, 142. Tincture bark and cantharides, 165. Syrup Peruvian bark, 166. Cochineal and carbonate potass., 169. Confection ipecacuanha, 254. Mixture ipecacuanha, 254. Compound syrup ipecacuanha, 255. Alkaline wine ipecacuanha, 255. Syrup sulphuret magnesia, 272. Myrrh and zinc, 304. Lettsom's elixir, 303. Mixture carbonate potass., 333. Compound syrup squill, 368. Carbonate soda and ipecacuanha, 382. Tincture artificial musk, 391. Liniment oil of amber, 392. Compound powder tobacco, 396. Mixture balsam tolu and copaiba, 401. Sulphate zinc, 414. Mixture sulphate zinc, 415.
- HYDROPHOBIA.** Extract hemp, 141. Tonquin powder, 282.
- HYDROCEPHALUS.** Powder foxglove, 190. Calomel and foxglove, 239. Ointment iodide potass. and mercury, 323.
- HYDROTHORAX.** Tincture colchicum and foxglove, 171. Mixture colocynth, 173.

Pills foxglove, 190. Mixture elaterium, 194. Gamboge mixture, 219. Extract lettuce, 263. Mixture tobacco, 396.

HYPOCHONDRIA. Assafetida, 117. Mixture lettuce and dandelion, 262.

HYPOPION. Pills seneka, 371.

HYSTERIA. Mixture acetie ether, 79. Carbonate ammonia, 93. Succinate ammonia, 97. Mixture chamomile, 104. Infusion Southern wood, 114. Assafetida and iron, 117. Assafetida mixture, 117. Alkaline tincture assafetida, 117. Tincture assafetida and soot, 118. Assafetida and castor, 118. Bolus castor, 151. Castor pills, 151. Skunk cabbage, 193. Soot pills, 215. Compound galbanum pills, 217. Mixture lactucarium, 262. Musk, 283. Pills opium and musk, 297. Tincture opium and asarabacca, 302. Mixture rue and squills, 355. Liniment oil of amber, 392. Compound powder valerian, 405. Vanilla, 407. Valerianate zinc, 415.

ILEUS. Hemlock oil, 176.

IMPETIGO. Lotion hydrocyanic acid, 72. Glycerine, 223. Compound powder sulphur, 393. Powder iodide sulphur, 395. Ointment oxide zinc and opium, 411.

INDURATIONS. Pills calomel and antimony, 240.

IRITIS. Turpentine mixture, 292.

ISCHURIA. Assafetida and opium, 117.

ITCH. Sulphuric acid ointment, 76. Lime water and sulphur, 135. Lime ointment, 136. Chlorine ointment, 159. Lotion corrosive sublimate, 237. Ointment red oxide mercury and sulphur, 245. Tincture sulphuret potass., 327. Compound lotion sulphuret potass., 327. Ointment carbonate potass., 333. Soap and sulphur, 362. Lotion sulphuret iodine, 379. Decoction stavesacre, 388. Compound powder sulphur, 393. Sulphur ointment, 394. Compound sulphur ointment, 394. Ointment white hellebore, 409.

JAUNDICE. Barberry, 129. Compound wine centaury, 184.

JOINTS, AFFECTIONS OF. Pipissisewa beer, 158. Compound decoction guaiacum, 226. Pills guaiacum and antimony, 227. Ointment calomel and squills, 241. Oil laurel, 263.

KIDNEYS, AFFECTIONS OF. Emulsion manna, 273. Emulsion carbonate soda, 382. Ointment turpentine, 399.

LABOR. Contrayerva mixture, 177. Ergot and its preparations, 196-7. Decoction cotton root, 224. Compound powder borax, 380.

LARYNGITIS. Creasote pills, 181. Liniment croton oil, 294. Plaster croton oil, 295.

LEUCORRHEA. Injection gallic acid, 71. Tannic acid, 76. Whytt's pills, 84. Alum, 88. Electuary catechu, 153. Peruvian bark and isinglass, 161. Wine Peruvian bark and calamus, 166. Cubebs and ergot, 183. Compound powder ergot, 196. Infusion black purslane, 198. Compound pills carbonate iron, 203. Lozenges iodide iron, 206. Bath iodide iron, 208. Ointment iodide iron, 208. Black oxide iron, 210. Electuary black oxide iron, 211. Sulphate iron, 211. Syrup sulphate iron, 212. Solution tartrate iron and potass., 212. Injection soot, 216. Tincture galls, 218. Avena, 222. Compound powder guaiacum, 227. Calomel and catechu, 240. Saturated tincture iodine, 251. Injection rhatany, 260. Injection subacetate lead, 314. Iodide potass., 321. Decoction oak bark, 342. Pills turpentine and guaiacum, 399.

LEPRO. Pills arsenic and opium, 70. Iodide arsenic, 113. Donovan's solution, 114. Barytic liniment, 126. Mudar, 138. Chlorine oil, 159. Mixture tincture eolocynth, 173. Carburet iron, 203. Ethereal solution bromide mercury, 276. Oint. naphthaline, 287.

- LICHEN.** Carburet iron, 203. Ointment glycerine, 223. Ointment calomel and camphor, 241. Ointment cyanide mercury, 242.
- LIPS, EXCORIATION OF.** Spermaceti lip salve, 155.
- LIVER, AFFECTIONS OF.** Muriatic acid pediluvium, 74. Terebinthinated ether, 81. Ointment tartar emetic, 108. Belladonna, 127. Blue pill and jalap, 234. Blue pill and quinine, 234. Compound mercurial pill, 234. Compound cathartic pills, 240. Calomel and jalap, 256. Tartrate of potass. and rhubarb, 338. Mixture tartrate potass., 338.
- LUMBAGO.** Camphor ointment, 140. Spirit turpentine mixture, 292.
- LUNGS, AFFECTIONS OF.** Syrup chamomile, 104. Tartar emetic, 107. Tartar emetic and opium, 107. Lotion tartar emetic, 108. Ointment tartar emetic, 108. Syrup antimonial wine, 109. Fig coffee, 214. Syrup asparagus, 116. Compound tincture benzoin, 129. Compound pills henbane, 248. Ipecacuanha and antimony, 253. Myrrh and ipecacuanha, 286. Naphthaline, 287. Tar water, 312. Solution cyanide potass., 320. Decoction and syrup seneka, 372. Storax, 389. Balsam tolu, 400. Colt's foot, 403.
- MAMMÆ, AFFECTIONS OF.** Ointment carbonate ammonia, 93. Fomentation sal-ammoniac, 95. Cataplasm sal-ammoniac, 95. Lime water and oil, 135. Ointment turpentine, 399. Ointment oxide zinc and lycopodium, 411.
- MANIA.** Compound pills columbo, 173. Pills foxglove, 193.
- MARASMUS.** Jelly orange leaves, 119.
- MEASLES.** Infusion safflower, 148. Spermaceti mixture, 155.
- MENORRHAGIA.** Pills gallic acid, 71. Pills tannic acid and opium, 76. Alum, 88. Compound bolus catechu, 152. Peruvian bark and isinglass, 161. Mixture extract ergot, 197. Infusion black purslane, 198. Pills ammoniated iron, 201. Injection sulphate iron, 211. Aromatic alum whey, 261.
- MERCURIAL DISEASE.** Mixture sulphuret potass., 328. Sulphur mixture, 394.
- MILK, TO INCREASE SECRETION OF.** Compound powder fennel, 215.
- MILK, TO RETARD SECRETION OF.** Bolus acetate potass., 329. Pills acetate soda, 379.
- MOUTH, AFFECTIONS OF.** Vinegar gargle, 67. Muriatic acid gargle, 74. Collutory nitric acid, 74. Alum, 89. Chlorine gargle, 158. Collutory balsam Peru, 285. Collutory carbonate potass., 332.
- MOLLITIES OSSIUM.** Phosphate lime, 137.
- MUSCLES, RIGIDITY OF.** Ointment iodine and oil tobacco, 252.
- NAUSEA.** Clove cataplasm, 149. Clove bag, 149. Pennyroyal, 229. Compound infusion mint, 278. Aromatic plaster, 311. Mixture carbonate potass., 332.
- NEPHRITIS.** Compound decoction oatmeal, 123. Infusion carrot seed, 148.
- NEURALGIA.** Aconite plaster, 77, 78. Plaster belladonna, 128. Oil benzoin, 129. Emulsion cantharides, 142. Bolus castor, 151. Liniment chloroform, 159. Tincture colchicum, 170. Colchicum and camphor, 172. Creasote pills, 181. Carbonate iron, 202. Mixture tincture guaiacum, 228. Calomel and opium, 240. Compound pills henbane, 248. Lotion cherry laurel, 264. Sulphate morphia, 282. Turpentine mixture, 292. Opiated turpentine liniment, 293. Carbonate lead ointment, 316. Lotion chloride lead, 316. Lotion cyanide potass., 320. Ointment cyanide potass., 321. Solution chloride potass., 334. Extract cevadilla, 355. Extract tobacco, 396. Ointment tobacco, 396. Veratria, 407. Valerianate zinc, 411.
- NERVOUS DISORDERS.** Camphor and musk, 138. Camphor water and Hoffmann's anodyne, 139. Peruvian bark and valerian, 161. Pills ammoniated iron, 201. Infusion hops, 232. Compound powder henbane, 248. Musk, 283. Wild cherry bark, 340. Compound pills sulphate quinine, 346. Oxide zinc, 410. Cyanide zinc, 412. Ferrocyanide zinc, 412.



- NIPPLES, EXCORIATED.** Oil elaterium, 195. Glycerine, 223. Mammillary lotion, 285. Opium and lime water, 300.
- NODES, VENEREAL.** Mercurial plaster, 235.
- NUX VOMICA, POISONING BY.** Sulphuric ether and turpentine, 81.
- NYCTALOPIA.** Calomel, antimony, and henbane, 239.
- OEDEMA.** Fomentation arnica, 113.
- ONYCHIA.** Corrosive sublimate and zinc, 237. Red oxide mercury, 244.
- OPHTHALMIA.** Alum collyrium, 88. Alum curd, 88. Acetate ammonia, 92. Antimonial wine, 108. Nitrate silver, 111. Ointment nitrate silver, 112. Chloride gold, 121. Chloride barium, 125. Sulphate cadmium, 133. Verdigris and alum, 185. Verdigris ointment, 186. Collyrium sulphate copper, 188. Decoction quince-seeds, 189. Eyebright, 199. Ointment Prussian blue, 206. Ointment red oxide and zinc, 245. Yellow root, 248. Wine opium, 301. Collyrium acetate lead, 314. Collyrium subacetate lead, 314. Ointment subacetate lead, 315. Collyrium biniodide potass., 324. Compound lotion iodide potass., 324. Collyrium crustic potass., 329. Ointment oxide zinc, 411. Ointment oxide of zinc and calomel, 411. Mixture ferrocyanide zinc, 412. Collyrium acetate zinc, 413. Collyrium sulphate zinc, 414.
- OPHTHALMIA, GONORRHOEAL.** Mercurial lotion, 234.
- OPIUM, POISONING BY.** Vinegar coffee, 70.
- ORCHITIS.** Mixture chloride barium, 125.
- OZÆNA.** Angelica, 103. Chloride lime, 134. Mercurial gargle, 233. Compound powder sulphate mercury, 245.
- PALPITATION.** Syrup asparagus, 116. Powder foxglove, 190. Wild cherry bark, 340.
- PANNUS.** Compound powder seneka, 371. Pills seneka, 371.
- PARALYSIS.** Infusion horseradish, 112. Extract arnica, 113. Assafetida, 116. Brucine, 131. Nitrate camphor, 141. Cantharides and Cayenne pepper, 142. Nux vomica, 288. Tincture nux vomica, 288-9. Pills opium and nitrate silver, 297. Phosphorated oil, 308. Lotion mustard, 378. Bath common salt and arnica, 379. Strychnine, 389. Iodate strychnine, 391.
- PERIPNEUMONIA.** Golden sulphuret antimony, 106. Powder foxglove, 190. Pills calomel and antimony, 240.
- PERIOSTITIS.** Compound mercurial ointment, 235.
- PHYMOSIS.** Solution sulphate copper, 188.
- PHTHISIS.** Mixture hydrocyanic acid, 72. Alum and benzoin, 88. Mixture chloride barium, 125. Belladonna, 127. Iodide calcium, 135. Iceland moss, 156. Electuary Peruvian bark and sulphur, 164. Pills creasote, 181. Pills sulphate copper, 187. Vinegar foxglove, 191. Ipecacuanha and nitrate potass., 253. Artificial goat's milk, 261. Locatelli's balsam, 285. Myrrh and Canada balsam, 286. Compound extract myrrh, 286. Griffith's mixture, 287. Aëtic turpentine liniment, 293. Compound pills acetate lead, 314. Mixture iodide potass., 322. Sulphuret potass. and charcoal, 326. Chlorate potass., 334.
- PLEURITIS.** Mixture foxglove, 191. Cataplasma long pepper, 310.
- PNEUMONIA.** Benzoic acid and ipecacuanha, 70. Mixture foxglove, 191. Powder ipecacuanha and muriate ammonia, 253. Powder ipecacuanha and antimony, 253.
- PORRIGO.** Ointment nitric acid, 74. Lotion corrosive sublimate and copper, 238. Ointment calomel and acetate lead, 241. Ointment nitrate mercury and lead, 244. Ointment sulphate mercury, 246. Ointment oxide manganese, 173. Bayer's ointment, 317. Compound lotion sulphuret potass., 327. Powder iodide sulphur, 395.

- PRURIGO.** Fomentation opium, 299. Ointment carbonate soda, 382. Powder iodide sulphur, 395.
- PRURITUS.** Lotion borax, 380. Lotion carbonate soda, 382. Lotion chloride soda, 383.
- PSORIASIS.** Arsenic and pepper pills, 69. Ointment nitric acid, 74. Ointment subnitrate bismuth, 130. Compound powder anthracokali, 147. Decoction soot, 215. Naphthaline ointment, 287. Ointment poke, 309. Tar ointment, 312. Compound lotion sulphuret potass., 327. Lotion tobacco, 396. Ointment tobacco, 396.
- PSOROPHTHALMIA.** Ointment sulphate copper, 188. Ointment red oxide mercury, 204. Ointment red oxide mercury and cinnabar, 245. Ointment common salt, 379. Compound sulphur ointment, 394.
- PYROSIS.** Alkaline wine aloes, 85. Compound pills kino, 259. Mixture carbonate potass., 333.
- RACHITIS.** Phosphate lime, 137. Black oxide iron, 211. Phosphate magnesia, 272. Mixture cod liver oil, 290. Acorn coffee, 342. Compound powder madder, 354.
- RECTUM, DISEASES OF.** Suppository hemlock, 176. Injection copaiba, 178.
- RHEUMATISM.** Aconite, 77. Aletris, 81. Ammoniacal liniment, 91. Phosphate ammonia, 96. Golden sulphuret antimony, 106. Tartar emetic and opium, 107. Plaster tartar emetic, 108. Antimonial powder, 109. Burdock, 110. Extract arnica, 113. Ointment chloride gold, 121. Sulphuret lime, 135. Nitrate camphor, 141. Compound tincture cantharides, 142. Plaster castor, 151. Black snakeroot, 160. Colchicum, 170-1. Tincture colchicum flowers, 171. Creasote pills, 181. Compound decoction bittersweet, 193. Compound galbanum plaster, 217. Hedge hyssop, 226. Decoction guaiacum, 226. Oil guaiacum, 227. Compound powder guaiacum, 227. Guaiacum mixture, 227. Guaiacum and bittersweet, 227. Tincture guaiacum, 227. Plummer's pills, 240. Black sulphuret mercury, 246. Nervine balsam, 269. Magnesia and colchicum, 270. Tincture magnolia, 272. Oil of horsemint, 279. Turpentine mixture, 292. Opium and antimony, 296. Opium plaster, 298. Fomentation wine opium, 301. Opium liniment, 303. Plaster petroleum, 308. Phosphorated oil, 308. Plaster black pepper, 310. Pitch plaster, 311. Plaster subacetate lead, 315. Solution chlorate potass., 334. Plaster pellitory, 340. Tincture cevadilla, 355. Camphorated essence soap, 361. Zittman's decoction, 363. Conserve broom, 371. Pills stramonium seeds, 388. Lotion stramonium, 388. Sulphuret carbon, 395. Turpentine liniment, 399. Poison oak, 402. Veratria 407. Wine white hellebore, 408.
- RINGWORM.** Ointment cocculus indicus, 168. Vinegar borax, 380.
- SALIVATION.** Sulphuretted hydrogen, 72. Tannic acid, 76. Gargle sulphate copper, 188. Pills iodine, 251. Sulphuret potass. and cremor tartar, 326. Gargle borax, 380.
- SCARLATINA.** Mixture hyponitrous ether, 80. Acetate ammonia, 92. Plaster tartar emetic, 100. Belladonna, 127-8. Cayenne pepper gargle, 145. Chlorine mixture, 159. Myrrh gargle, 287. Mixture tartrate potass., 338. Mixture cremor tartar, 339.
- SCIATICA.** Liniment succinated ammonia, 97. Plaster sulphuret antimony, 107. Oil turpentine and honey, 292. Oil turpentine mixture, 292.
- SCHIRRHUS.** Bolus sal ammoniac, 95. Extract marigold, 137. Charcoal, 146. Hemlock, 175. Mercury and antimony, 239. Ointment mercury and belladonna, 235.
- SCROFULA.** Hydriodate ammonia, 94. Chloride barium, 125. Iodide barium, 125. Barytes, 125. Compound cataplasm bryony, 131. Solution chloride calcium, 133. Chloride lime, 134. Animal charcoal, 145. Anthracokali, 146. Hemlock, 175.

- Koechlin's drops, 186. Mixture bittersweet, 194. Compound powder metallic iron, 200. Ammoniated iron, 201. Bromide iron, 202. Compound pills carbonate iron, 203. Lozenges iodide iron, 207. Ammoniated tincture gentian, 231. Frost weed, 229. Ointment mercury and belladonna, 235. Mercury and antimony, 233. Iodide mercury, 242. Ointment iodide mercury, 243. Binioidide mercury, 243. Black sulphuret mercury, 246. Iodine bath, 251. Mixture iodine, 252. Cod liver oil, 290. Iodide lead, 317. Ointment iodide lead, 317. Solution bromide potass., 319. Ointment bromide potass., 319. Ointment iodide potass., 322. Mixture iodide potass., 322. Bath sulphuret potass., 327. Mixture sulphuret potass., 328. Conserve acetate potass., 329. Acorn coffee, 342. Hydriodate quinine, 343. Decoction madder, 354. Jauperand's decoction, 363. Compound infusion sassafras, 365. Compound ointment common salt, 379. Bath common salt and gelatine, 378. Carbonate soda and chamomile, 383. Sulphur electuary, 393.
- SCURVY. Wood sorrel, 67. Alumine, 87. Mixture horseradish, 112. Brook lime, 126. Scurvy grass, 169. Collutory lemon juice, 265. Mixture buckbean, 278. Chlorate potass., 334.
- SEA SICKNESS. Plaster carbonate ammonia, 93.
- SLEEPLESSNESS. Camphor water and Hoffmann's anodyne, 139. Tincture hops, 232. Mixture lactucarium, 262. Acetate morphia, 281. Preparations opium, 295. Syrup poppy heads, 306. Jamaica dogwood, 311.
- SNAKE BITES. Ammonia and ether, 91. Eau de luce, 93, 392.
- SORE THROAT, VENEREAL. Mercurial lotion, 233.
- SPASM EYELIDS. Lotion opium and oil chamomile, 298.
- SPASMODIC DISEASES. Sulphuric acid and ether, 76. Succinated ammonia, 96. Nitrate silver, 111. Electuary orange leaves, 119. Camphor, 138. Ethereal tincture camphor, 139. Castor, 151. Chloroform, 159. Mayweed, 181. Pills foxglove, 190. Tincture galbanum, 217. Calomel, antimony, and henbane, 239. Anti-hysterie water, 277. Musk, 283. Dippel's animal oil, 289. Opium and its preparations, 291. Succinated tincture opium, 302. Clyster opium and valerian, 303. Cyanide potass., 320. Mixture nitrate potass., 336. Confection rue, 365. Extract stramonium, 388. Purified oil amber, 391. Artificial musk, 391. Balsam amber, 392. Infusion linden, 400. Valerian, 404. Oxide zinc, 410. Cyanide zinc, 412.
- SPERMATORRHEA. Compound powder cascarilla, 150. Mixture acetate lead, 315.
- SPINA VENTOSA. Bath sulphuret potass., 327.
- SPLEEN, DISEASES OF. Solution hydrargyro-iodide potass., 325.
- SPRAINS. Lotion sal ammoniac, 95. Liniment opium, 298. Aromatic vinegar, 353.
- STOMACH, AFFECTIONS OF. Cayenne pepper pills, 145. Chlorine mixture, 159. Tincture chloride iron, 204. Mixture tincture guaiacum, 228. Aromatic plaster, 311. Compound powder sulphate quinine, 345. Mixture sulphuret carbon, 395.
- STRANGURY. Clyster laudanum, 303. Infusion parsley, 308. Mixture nitrate potass., 336.
- SWEATING, PROFUSE. Mixture nitric acid, 74. Agaric, 130. Acetate lead, 313. Mixture acetate lead, 315.
- SYPHILIS. Mixture nitric acid, 74. Sulphuretted hydrosulphate ammonia, 95. Chloride silver, 110. Cyanide silver, 110. Gargle orpiment, 114. Preparations gold, 120-2. Compound powder anthraekali, 147. Hemlock and calomel, 175. Koechlin's drops, 186. Mercury and its preparations, 232. Opiated acetate mercury, 297. Bichloride platina, 313. Chloroplatinate soda, 313. Mixture binioidide potass., 324. Compound tincture carbonate potass., 333. Double chloride quinine and mercury, 343. Zittman's decoction, 363.
- TAPEWORM. Chloride barium, 125. Male fern, 214. Compound powder gamboge,



219. Decoction pomegranate root, 225. Anthelmintic emulsion, 292. Mixture petroleum, 308. Compound powder eevadilla, 355. Oxide tin, 388.
- TEETH, DISEASES OF.** Alum and ether, 88. Vicat's mixture, 94. Chloride lime, 134. Cantharides plaster, 144. Oil cloves, 149. Plaster eastor, 151. Chlorine oil, 159. Hemlock collyrium, 175. Solution creasote, 182. Compound oil guaiacum, 227. Mixture guaiacum, 228. Mastie paste, 275. Turpentine lotion, 292. Antiodontalgie mass, 298. Balsam and drops for toothache, 298. Odontalgie drops, 301. Pellitory and preparations, 340.
- TESTICLE, ENGORGED.** Compound mercurial ointment, 235. Ointment iodide potass., 322.
- TETANUS.** Extract hemp, 141. Mixture Dippel's animal oil, 289. Opium and cinnamon water, 300. Solution caustic potass., 128.
- THROAT, AFFECTIONS OF.** Nitrate silver, 111. Cayenne pepper gargle, 145. Gargle Peruvian bark, 165. Liniment verdigris, 186. Gargle ammoniated copper, 187. Gargle figs, 213. Gargle galls, 218. Gargle pomegranate rind, 225. Muriate manganese, 272. Gargle myrrh, 287. Gargle nitrate potass., 336. Gargle sulphate quinine, 347. Gargle sage, 359. Vinegar sage, 359. Vinegar elder flowers, 359.
- TINEA CAPITIS.** Lotion hydrocyanic acid, 72. Ammoniacal liniment, 91. Sulphuret antimony, 105. Ointment azedarach, 123. Liniment chloride lime, 134. Compound soot ointment, 216. Ointment calomel and alum, 241.\* Ointment poke, 309. Oil black pepper, 310. Tar ointment, 312. Ointment black pitch, 312. Ointment bromide potass., 319. Compound lotion sulphuret potass., 329. Ointment sulphuret potass., 328. Compound ointment common salt, 379. Lotion sulphuret soda, 379. Ointment carbonate soda, 382. Compound sulphur ointment, 394. Ointment sulphur and zinc, 394. Ointment sulphuret carbon, 395.
- TONSILS INFLAMED, &c.** Gargle alum, 88. Gargle iodine, 252. Ointment iodine, 252.
- TENESMUS.** Clyster, laudanum, 303. Pills rhubarb and ipecacuanha, 349.
- TRISMUS.** Musk mixture, 284.
- ULCERS.** Nitric acid, 74. Sulphate alumine, 87. Burnt alum, 87. Anglo Saxon ointment, 90. Ointment oxide silver, 111. Ointment nitrate silver, 112. Chloride lime, 134. Ointment charecoal, 146. Charecoal cataplasm, 146. Chlorine liniment, 159. Peruvian bark and camphor, 161. Cerate Peruvian bark, 166. Hemlock ointment, 175. Verdigris lotion, 185. Metz's balsam, 185. Egyptian ointment, 186. Sal ammoniated copper, 187. Ointment ammoniated copper, 187. Ointment sulphate copper, 188. Ointment foxglove, 191. Ointment oleine, 195. Ointment soot, 216. Ointment galls, 219. Compound oil guaiacum, 227. Ointment red oxide mercury, 245. Lotion henbane, 248. Infusion cherry laurel, 264. Ceromel, 276. Mezeoreon ointment, 279. Ointment monesia, 280. Root of mulberries, 280. Tincture balsam Peru, 285. Ointment balsam Peru, 286. Plaster balsam Peru, 286. Cod liver oil, 290. Ointment bichloride platina, 313. Lotion acetate lead, 315. Goulard's lotion, 315. Ointment subacetate lead, 315. Compound powder carbonate lead, 316. Ointment carbonate lead, 316. Caustic solution iodide potass., 324. Ointment biniodide potass., 325. Saviard's lotion, 329. Solution chloride potass., 334. Resin cerate, 348. Wine roses, 313. Ointment willow leaves, 358. Balsam sulphur, 394. Turpentine liniment, 399. Turpentine plaster, 399. Cataplasm slippery-elm, 404. Lotion chloride zinc, 411. Plaster carbonate zinc, 414.
- ULCERS VENEREAL.** Mercurial liniment, 235. Lotion corrosive sublimate, 237. Yellow wash, 238. Ointment cyanide mercury, 242. Ointment red iodide mercury, 243. Black wash, 244. Compound tincture opoponax, 304. Plaster biniodide potass. and opium, 321.
- URETHRITIS.** Injection kino, 259. Injection subacetate lead and lime water, 315. Pills nitrate potass., 325.

- URINARY ORGANS, AFFECTIONS OF. Pipsissewa, 157. Buchu, 192. Clyster laudanum, 303. Pareira brava, 306. Embrocation petroleum, 307. Extract dandelion, 398. Turpentine pills, 399. Pills turpentine and magnesia, 399. Compound uva ursi, 404.
- URINE, INCONTINENCE. Chloride gold and soda, 121. Compound pills nux vomica, 289. Powder iodide sulphur, 395.
- URINE, RETENTION. Sal ammoniac, 95.
- UTERUS, DISEASES OF. Animal charcoal, 146. Chlorine injection, 158. Syrup ergot, 196. Injection rhatany, 260. Ointment acetate morphia, 281. Mixture wine opium, 301.
- UVULA, RELAXATION OF. Gargle galls, 218. Gargle oak bark, 342. Gargle sage, 359.
- VAGINA, DISEASES OF. Injection copaiba, 178. Injection opium, 299. Suppository chloride zinc, 411.
- VERMIN, TO DESTROY. Ointment cocculus indicus, 168. Ointment fennel, 215. Ointment cevadilla, 356. Capuchin powder, 356. Vinegar stavesacre, 388. Ointment stavesacre, 388.
- VERTIGO. Bolus castor, 158.
- VOMITING, TO CHECK. Mixture catechu, 153. Compound pills colombo, 174. Mixture colombo, 174. Creasote mixture, 182. Clyster laudanum, 303. Aromatic plaster, 311. Antiemetic mixture, 382.
- VOMITING, SPASMODIC. Mercurial mixture, 234. Mixture ipecacuanha, 254.
- WARTS. Escharotic powder alum, 87. Ointment chloride antimony, 105. Verdigris ointment, 186. Verdigris plaster, 186. Corrosive sublimate and copper, 237. Savine and verdigris, 386. Savine ointment, 357.
- WEAKNESS OF BACK. Lotion Peruvian bark, 165. Iron plaster, 203. Plaster red oxide iron, 212.
- WHITE SWELLING. Ointment nitrate silver, 112. Chloride calcium, 133.
- WORMS. Tincture and wine wormwood, 64. Ointment aloes, 86. Semen contra, 115. Assafetida and iron, 117. Azedarach, 123. Wormseed, 157. Cochineal and common salt, 169. Mixture copaiba, 179. Male fern, 214. Cabbage tree bark, 222. Mercurial mucilage, 233. Calomel and scammony, 219. Calomel and jalap, 240. Black sulphuret mercury, 246. Cowhage, 284. Dippel's animal oil, 289. Mixture olive oil, 291. Anthelmintic emulsion, 291. Castor oil and ether, 292. Emulsion opoponax, 304. Savine and pinkroot, 356. Anthelmintic emulsion, 375. Pinkroot, 385. Powder tin, 387. Sulphuret tin, 387. Tansy, 397. Turpentine and jalap, 399.

# INDEX

OF

## PHARMACEUTICAL AND BOTANICAL NAMES.

- Abies canadensis*, 312  
     *excelsa*, 311  
     *picea*, 311  
*Abietis resina*, 311  
*Absinthium*, 65  
*Acacia*, 66  
     *arabica*, 66  
     *catechu*, 152  
     *senegal*, 66  
     *vera*, 66  
*Acetosella*, 67  
*Acetum*, 67  
*Acidum aceticum*, 68  
     *emphyreumaticum*, 69  
     *arseniosum*, 69  
     *benzoicum*, 70  
     *boracicum*, 70  
     *citricum*, 71  
     *gallicum*, 71  
     *hydrocyanicum*, 71  
     *hydriodicum*, 72  
     *hydrosulphuricum*, 72  
     *lacticum*, 73  
     *muriaticum*, 73  
     *nitricum*, 74  
     *nitro-muriaticum*, 75  
     *oxalicum*, 75  
     *phosphoricum*, 75  
     *sulphuricum*, 75  
     *tannicum*, 76  
     *tartaricum*, 77  
     *valerianicum*, 77, 406  
*Aconitina*, 78  
*Aconitum*, 77  
     *napellus*, 77  
     *paniculatum*, 77  
*Acorus calamus*, 133  
*Adiantum*, 79  
     *capillus veneris*, 79  
     *pedatum*, 79  
*Æsculus hippocastanum*, 247  
*Æther aceticus*, 79  
     *hydrocyanicus*, 80  
     *hyponitrosus*, 79  
     *muriaticus*, 80  
     *sulphuricus*, 80  
     *terebinthinatus*, 81  
*Agathotes chirayta*, 158  
*Aletris*, 81  
     *farinosa*, 81  
*Allium*, 81  
     *sativum*, 81  
*Aloe*, 82  
     *socotrina*, 82  
     *spicata*, 82  
     *vulgaris*, 82  
*Althæa*, 86  
     *officinalis*, 86  
*Alumina*, 86  
*Aluminæ acetas*, 87  
     *et potassæ sulphas*, 87  
     *sulphas*, 87  
*Ammonia*, 90  
*Ammoniæ acetas*, 91  
     *arsenias*, 92  
     *carbonas*, 92  
     *citras*, 94  
     *hydriodas*, 94  
     *hydrosulphas*, 94  
     *urias*, 95  
     *nitras*, 96  
     *phosphas*, 96  
     *succinas*, 96  
     *sulphas*, 97  
*Ammoniacum*, 97  
*Amygdala*, 98  
     *amara*, 98  
     *dulcis*, 98  
*Amygdalus communis*, 98  
*Amylum*, 101  
*Amyli iodidum*, 102  
*Anacyclus pyrethrum*, 340  
*Anamirta cocculus*, 168  
*Anemone*, 102  
     *pratensis*, 102  
     *pulsatilla*, 102  
*Angelica*, 102  
     *atropurpurea*, 102  
     *officinalis*, 102  
*Angustura*, 103  
*Anisum*, 103  
*Anthemis*, 104  
     *nobilis*, 104  
*Antimonialis pulvis*, 109  
*Antimonium*, 104  
*Antimonii chloridum*, 105  
     *et potassæ tartras*, 107  
     *sulphas*, 107  
     *sulphuretum*, 105  
*Apis mellifica*, 276  
*Apocynum*, 109  
     *androsæmifolium*, 109  
     *cannabinum*, 109  
*Aralia nudicaulis*, 110  
     *spinosa*, 110  
*Arctium*, 110  
     *lappa*, 110  
*Arctostaphylos uva ursi*, 404  
*Argentum*, 110  
*Argenti chloridum*, 110  
     *cyanidum*, 110  
     *iodidum*, 110



- Argenti oxidum, 111  
     nitras, 111  
 Aristolochia hirsuta,  
     reticulata,  
     serpentaria,  
 Armoracia, 112  
 Arnica, 112  
     montana, 112  
 Arsenicum, 113  
 Arsenici iodidum, 113  
     et hydrargyri iodidum, 114  
     sulphuretum, 114  
 Artanthe clongata, 275  
 Artemisia, 114  
     absinthium, 65  
     abrotanum, 114  
     contra, 115  
     judaica, 115  
     moxa, 114  
     santonica, 115  
 Arum, 115  
     triphyllum, 115  
 Asagræa officinalis, 355  
 Asarum, 115  
     canadense, 115  
     europæa, 115  
 Asclepias, 115  
     incarnata, 116  
     syriaca, 116  
     tuberosa, 115  
 Asparagus, 116  
     officinalis, 116  
 Assaetida, 116  
 Astragalus tragacantha, 402  
 Atropa belladonna, 126  
 Atropia, 118  
 Aurantium, 118  
 Aurantii cortex, 119  
     flores, 120  
     folia, 119  
 Aurum, 120  
     ammoniatum, 123  
     stanno paratum, 123  
 Auri chloridum, 120  
     cyanidum, 122  
     et sodii chloridum, 121  
     iodidum, 122  
     oxidum, 122  
 Avena sativa, 123  
 Azedarach, 124  
  
 Ballota lanata, 124  
 Balsamodendron myrrha, 286  
 Baptisia tinctoria, 124  
 Barium, 124  
 Barii chloridum, 124  
     iodidum, 125  
     sulphuretum, 125  
 Barosma crenata, 192  
     serratifolia, 192  
 Baryta, 125  
 Barytæ acetas, 126  
 Bebeerina, 126  
 Beccabunga, 126  
 Belladonna, 126  
 Benzoinum, 128  
 Berberis, 129  
     vulgaris, 129  
 Bismuthum, 129  
 Bismuthi subnitras, 129  
 Bistorta, 130  
 Boletus laricis, 130  
 Brominum, 130  
 Brucia, 130  
 Bruciæ acetas, 131  
     urias, 131  
     sulphas, 131  
  
 Bryonia, 131  
     alba, 131  
     dioica, 131  
 Buxus, 131  
     sempervirens, 131  
  
 Cacao, 132  
 Cadmium, 133  
 Cadmii sulphas, 133  
 Calamus, 133  
 Calcis carbonas, 136  
     phosphas, 137  
 Calcii chloridum, 133  
     iodidum, 135  
     sulphuretum, 135  
 Calcium, 133  
 Calendula, 137  
     officinalis, 137  
 Calotropis, 138  
     gigantea, 138  
 Calx, 135  
     chlorinata, 134  
 Camphora, 138  
     officinarum, 138  
 Canella, 141  
     alba, 141  
 Cannabis, 141  
     sativa, 141  
 Cantharis, 141  
     vesicatoria, 141  
 Capsicum, 144  
     annuum, 144  
     baccatum, 144  
     frutescens, 144  
 Carbo animalis, 145  
     ligni, 146  
     mineralis, 146  
 Carbonis iodidum, 147  
     sulphuretum, 395  
 Cardamine, 147  
     pratensis, 147  
 Cardamomum, 147  
 Carota, 148  
 Carthamus, 148  
     tinctoria, 148  
 Carum, 148  
     carui, 148  
 Caryophyllus, 149  
     aromaticus, 149  
 Cascarilla, 150  
 Cassia acutifolia, 373  
     clongata, 373  
     fistula, 150  
     marilandica, 150  
     obovata, 373  
 Castor fiber, 151  
 Castoreum, 151  
 Catalpa, 152  
     cordifolia, 152  
 Cataria, 152  
 Catechu, 152  
 Ceanothus, 154  
     americanus, 154  
 Centaurea benedicta, 154  
 Centaurium, 154  
 Cephælis ipecacuanha, 252  
 Cerasus serotina, 340  
 Cetaceum, 154  
 Cetraria, 156  
 Chelidonium, 156  
     majus, 156  
 Chenopodium, 156  
     anthelminticum, 156  
 Chimaphila, 157  
     umbellata, 157  
 Chiretta, 158  
 Chlorinum, 158

Chloriformum, 159  
 Chondrus, 159  
     crispus, 159  
 Chrysophyllum, 279  
 Cichorium, 160  
     intybus, 160  
 Cimicifuga, 160  
     racemosa, 160  
 Cinchona, 160  
 Cinchonina, 166  
 Cinnamomum, 167  
     aromaticum, 167  
     zeylanicum, 167  
 Cissampelos pareira, 306  
 Citrullus colocynthis, 172  
 Citrus aurantium, 113  
     limonum, 264  
 Cocculus, 163  
     palmatus, 173  
 Coccus, 163  
 Cochlearia, 199  
     armoracia, 112  
     officinalis, 169  
 Codeia, 169  
 Coffea, 169  
     arabica, 169  
 Colchicum, 170  
     autumnale, 170  
 Collinsonia, 172  
     canadensis, 172  
 Colocynthis, 172  
 Colomba, 173  
 Comptonia, 174  
 Conium, 175  
     maculatum, 175  
 Contrayerva, 176  
 Convolvulus panduratus, 177  
     scammonia, 365  
 Copaiba, 177  
 Copaifera officinalis, 177  
 Coptis, 179  
     trifolia, 179  
 Coriandrum, 179  
     sativum, 179  
 Cornu, 178  
 Cornus, 180  
     circinata, 180  
     florida, 180  
     sericea, 180  
 Cotula, 181  
 Creasotum, 181  
 Crocus, 182  
     sativus, 182  
 Croton eleutheria, 150  
     lacciferum, 262  
     tigilium, 293  
 Cubeba, 183  
 Cuminum cyminum, 189  
 Cunila, 185  
     mariana, 185  
 Cuprum, 185  
     ammoniatum, 186  
 Cupri acetas, 185  
     murias, 186  
     sulphas, 187  
 Cydonia, 188  
     vulgaris, 188  
 Cyminum, 189  
 Cytisus scoparius, 371  
 Daphne gnidium, 278  
     mezereum, 278  
 Datura stramonium, 388  
 Daucus carota, 148  
 Delphinium, 189  
     consolida, 189  
     staphisagria, 388

Delphinia, 189  
 Dianthus, 190  
     caryophyllus, 190  
 Digitalis, 190  
     purpurea, 190  
 Digitalina, 192  
 Diosma, 192  
 Diospyros, 193  
     virginiana, 193  
 Diplolepis gallæ tinctoriæ, 218  
 Dirca, 193  
     palustris, 193  
 Dorema ammoniacum, 97  
 Dorstenia contrayerva, 176  
 Dracontium, 193  
 Drimys winteri, 410  
 Dulcamara, 193  
 Ecballium elaterium, 194  
 Elaterina, 195  
 Elaterium, 194  
 Elemi, 195  
 Elettaria cardamomum, 147  
 Emetina, 195  
 Ergota, 196  
 Ergotetia arbortifaciens, 196  
 Erigeron, 197  
 Erigeron annuum, 197  
     canadense, 197  
     heterophyllum, 197  
     philadelphicum, 197  
     strigosum, 197  
 Eryngium, 197  
     aquaticum, 198  
     maritimum, 197  
 Erythraea centaurium, 154  
 Eugenia pimenta, 309  
 Eupatorium, 198  
     perfoliatum, 198  
     purpureum, 198  
     teucrifolium, 198  
 Euphorbia, 198  
     corollata, 198  
     hypericifolia, 198  
     ipêcacuanha, 198  
     lathyris, 198  
 Euphorbium, 199  
 Euphrasia, 199  
     officinalis, 199  
 Ferrum, 199  
     ammoniatum, 201  
     sulphuretum, 212  
 Ferri acetas, 200  
     ammonio-tartras, 213  
     arsenias, 201  
     bromidum, 201  
     carbonas, 202  
     carburetum, 203  
     chloridum, 204  
     citras, 205  
     et potassæ tartras, 212  
     ferrocyanuretum, 205  
     filum, 199  
     gallas, 206  
     iodidum, 206  
     lactas, 208  
     malas, 208  
     nitras, 209  
     oxidum hydratum, 209  
         nigrum, 209  
         rubrum, 210  
     phosphas, 210  
     ramenta, 199  
     sulphas, 210  
     tannas, 213  
     valerianas, 213

- Ferula assafœtida*, 116  
     *tingitana*, 97  
*Ficus*, 213  
     *carica*, 213  
*Filix mas*, 214  
*Fœniculum*, 215  
     *vulgare*, 215  
*Frasera*, 215  
     *carolinensis*, 215  
*Fraxinus ornus*, 273  
*Fuligo*, 215  
*Fuligokali*, 216  
  
*Galbanum*, 217  
     *officinale*, 217  
*Galipea officinalis*, 103  
*Galium verum*, 218  
*Galla*, 218  
*Gambogia*, 219  
*Gaultheria*, 220  
     *procumbens*, 220  
*Gentiana*, 220  
     *lutea*, 220  
*Gentianina*, 222  
*Geranium*, 222  
     *maculatum*, 222  
*Geoffroya inermis*, 222  
*Geum*, 222  
     *rivale*, 222  
     *urbanum*, 223  
     *virginianum*, 223  
*Gillenla*, 223  
     *trifoliata*, 223  
*Glycerinum*, 223  
*Glycyrrhiza*, 223  
     *glabra*, 223  
*Gossypium*, 224  
     *herbaceum*, 224  
*Granatum*, 225  
*Gratiola*, 226  
     *aurea*, 226  
     *officinalis*, 226  
*Guaiaicum*, 226  
     *officinale*, 226  
  
*Hæmatoxylinum*, 228  
     *campechianum*, 228  
*Hamamelis*, 229  
     *virginiana*, 229  
*Hebradendron*, 219  
*Hedeoma*, 229  
     *pulegioides*, 229  
*Helenium*, 229  
     *autumnale*, 229  
*Helianthemum*, 229  
     *canadense*, 229  
*Helleborus*, 229  
     *niger*, 229  
*Helonias officinale*, 355  
*Hemidesmus*, 230  
     *indicus*, 230  
*Hepatica*, 230  
     *triloba*, 230  
*Heracleum*, 231  
     *lanatum*, 231  
*Heuchera*, 231  
     *americana*, 231  
*Hippocastanum*, 247  
*Hordeum*, 231  
     *distichon*, 231  
     *vulgare*, 231  
*Humulus*, 232  
     *lupulus*, 232  
*Hydrargyrum*, 232  
     *ammoniatum*, 236  
*Hydrargyri acetas*, 235  
     *boras*, 236  
     *bromidum*, 236  
     *chloridum corrosivum*, 237  
     *mite*, 238  
     *cyanuretum*, 241  
     *et quinæ chloridum*, 241  
     *iodidum*, 242  
         *rubrum*, 243  
     *nitras*, 243  
     *oxidum nigrum*, 244  
         *rubrum*, 244  
     *phosphas*, 245  
     *sulphas*, 245  
     *sulphuretum nigrum*, 246  
         *rubrum*, 246  
     *tartas*, 247  
*Hydrastis canadensis*, 248  
*Hyoscyamus*, 248  
     *niger*, 248  
  
*Ichthyocolla*, 249  
*Indigofera*, 250  
*Indigum*, 250  
*Inula*, 250  
     *helenium*, 250  
*Iodidum*, 251  
     *sulphuris*, 395  
*Ipecacuanha*, 252  
*Ipomœa jalapa*, 255  
*Iris florentina*, 255  
  
*Jalapa*, 255  
*Janipha manihot*, 397  
*Juglans cinerea*, 257  
*Juniperus*, 257  
     *communis*, 257  
     *sabina*, 356  
     *virginiana*, 258  
  
*Kino*, 258  
*Krameria*, 259  
     *triandra*, 259  
  
*Lac*, 260  
*Lacca*, 262  
*Lactuca*, 262  
     *— elongata*, 262  
*Lactucarium*, 262  
*Lauri baccæ*, 263  
     *folia*, 263  
*Lauro cerasus*, 264  
*Laurus*, 263  
     *nobilis*, 263  
     *sassafras*, 365  
*Lavandula*, 264  
     *vera*, 264  
*Limon*, 265  
*Linum*, 267  
     *usitatissimum*, 267  
*Liriodendron*, 267  
     *tulipifera*, 267  
*Lobelia*, 268  
     *inflata*, 268  
*Lupulina*, 268  
  
*Macis*, 269  
*Magnesia*, 269  
*Magnesia acetas*, 270  
     *carbonas*, 270  
     *citras*, 271  
     *phosphas*, 272  
     *sulphas*, 271  
*Magnesiæ sulphuretum*, 272  
*Magnesium*, 269  
*Magnolia*, 272  
     *glauca*, 272  
*Maltum*, 272  
*Malva*, 272



Malva sylvestris, 272  
 Manganesi carbonas, 272  
     muriæ, 272  
     oxidum, 273  
     sulphas, 273  
 Manganeseum, 272  
 Manna, 273  
 Mannita, 274  
 Maranta, 274  
     arundinacea, 274  
 Marrubium, 274  
     vulgare, 274  
 Maruta cotula, 181  
 Mastiche, 275  
 Matico, 275  
 Matricaria, 276  
     chamomilla, 276  
 Mel, 276  
 Melaleuca cajuputi, 289  
 Melia azedarach, 124  
 Melissa, 277  
     officinalis, 277  
 Mentha piperita, 277  
     viridis, 277  
 Menyanthes, 278  
     trifoliata, 278  
 Mezereum, 278  
 Monarda, 279  
     punctata, 279  
 Monesia, 279  
 Mora, 280  
 Morphia, 280  
 Morphicæ acetæ, 280  
     bimeconas, 281  
     citras, 281  
     hydriodas, 282  
     muriæ, 282  
     nitras, 282  
     phosphas, 282  
     sulphas, 282  
     tartaras, 283  
 Morus nigra, 280  
     rubra, 280  
 Moschus, 283  
     moschiferus, 283  
 Mucuna, 284  
     pruriens, 284  
 Myristica, 284  
     moschata, 284  
 Myroxylon, 285  
     peruiferum, 285  
 Myrospermum toluiferum, 400  
 Myrrha, 287  
  
 Naphthalina, 287  
 Narcotina, 288  
 Narcotinæ muriæ, 288  
 Narthex, 116  
 Nectandra radœi, 126  
 Nepeta cataria, 152  
 Nephrodium filix mas, 214  
 Nicotiana tabacum, 395  
 Nux vomica, 288  
  
 Olea europæa, 290  
 Oleum animale empyreumaticum, 289  
     cajuputi, 289  
     jecoris aselli, 290  
     morrhue, 290  
     olivæ, 290  
     ricini, 291  
     terebinthinæ, 292  
     tiglii, 293  
 Opium, 295  
 Opoponax, 304  
     chironium, 304  
 Origanum, 304

Origanum vulgare, 304  
 Ornus europæa, 273  
 Oryza, 304  
     sativa, 304  
 Ovum, 305  
 Oxalis acetosella, 67  
  
 Papaver, 306  
     rhœas, 351  
     somniaferum, 295, 306  
 Pareira, 306  
     brava, 306  
 Paullinia, 307  
     sorbilis, 307  
 Petroleum, 307  
 Petroselinum, 308  
     sativum, 308  
 Phloridzina, 308  
 Phosphorus, 308  
 Phytolacca, 309  
     decandra, 309  
 Physeter macrocephalus, 154  
 Picræna excelsa, 341  
 Pimenta, 309  
 Pimpinella anisum, 103  
 Piper, 310  
     angustifolium, 275  
     cubeba, 183  
     longum, 311  
     nigrum, 310  
 Piperinum, 311  
 Piscidia erythrina, 311  
 Pistacia lentiscus, 275  
 Pix abietis, 311  
     canadensis, 312  
     liquida, 312  
     nigra, 312  
 Platina bichloridum, 313  
 Platinum, 313  
 Plumbi acetæ, 313  
     carbonas, 316  
     chloridum, 316  
     iodidum, 316  
     oxidum semivitreum, 317  
     rubrum, 318  
     saccharas, 318  
     tannas, 318  
 Plumbum, 313  
 Podophyllin, 318  
 Podophyllum, 318  
     peltatum, 318  
 Polygala senega, 371  
 Polygonum, 319  
     bistorta, 130, 319  
 Potassa, 328  
 Potassæ acetæ, 329  
     arsenitis liquor, 330  
     arsenias, 330  
     bicarbonas, 333  
     bisulphas, 337  
     bitartaras, 338  
     boras, 330  
     borotartaras, 331  
     carbonas, 331  
     chloras, 334  
     citras, 334  
     cum sulphure, 338  
     et ammoniæ carbonas, 334  
         sulphas, 337  
         tartaras, 339  
     et magnesiæ sulphas, 337  
     iodas, 335  
     nitras, 335  
         purificatum, 335  
     oxalas, 336  
     silicas, 336  
     sulphas, 337

- Potassæ tartras, 338  
 Potassii biniodidum, 323  
     bromidum, 319  
     chloridum, 319  
     cyanuretum, 320  
     hydrargyro-iodidum, 325  
     iodidum, 321  
     sulpho-cyanuretum, 326  
     sulphuretum, 326  
 Potassium, 319  
 Potentilla tormentilla, 401  
 Prinos, 339  
     verticillatus, 339  
 Prunum, 340  
 Prunus domestica, 340  
     lauro-cerasus, 264  
     Virginiana, 340  
 Pterocarpus marsupium, 258  
 Punila granatum, 225  
 Pyrethrum, 340  
  
 Quassia, 341  
     amara, 341  
     excelsa, 341  
 Quercus, 341  
     alba, 341  
     infectoria, 218  
     pedunculata, 341  
     robur, 341  
     tinctoria, 341  
 Quinia, 342  
 Quiniæ acetas, 342  
     arsenias, 343  
     citras, 343  
     et ferri citras, 343  
         iodidum, 343  
     et hydrargyri chloridum, 343  
     ferrocyanas, 343  
     hydriodas, 343  
         iodureta, 343  
     kinas, 344  
     lactas, 344  
     urias, 344  
     nitras, 344  
     phosphas, 344  
     sulphas, 344  
     tannas, 347  
     tartras, 347  
     valerianas, 347  
  
 Resina, 347  
 Rheum, 348  
 Rhœas, 351  
 Rhus toxicodendron, 402  
 Ricinus communis, 291  
 Rosa canina, 352  
     centifolia, 352  
     gallica, 352  
 Rosmarinus, 353  
     officinalis, 353  
 Rubia, 354  
     tinctorum, 354  
 Rubus trivialis, 354  
     villosus, 354  
 Ruta, 355  
     graveolens, 355  
  
 Sabadilla, 355  
 Sabbatia, 356  
     angularis, 356  
 Sabina, 356  
 Saccharum, 357  
     officinarum, 357  
 Sagapenum, 357  
 Sago, 357  
 Salicina, 358  
  
 Salix, 358  
     alba, 358  
 Salvia, 358  
     officinalis, 358  
 Sambucus, 359  
     canadensis, 359  
     nigra, 359  
 Sanguinaria, 359  
     canadensis, 359  
 Sapo, 360  
     durus, 360  
     mollis, 360  
     vulgaris, 360  
 Sarsaparilla, 362  
 Sassafra, 365  
     officinale, 365  
 Scammonium, 365  
 Scilla, 367  
     maritima, 367  
 Scoparius, 371  
 Scrophularia nodosa, 371  
 Senega, 371  
 Senna, 373  
 Serpentina, 376  
 Sesamum, 376  
     indicum, 376  
     orientale, 376  
 Simaruba, 377  
     amara, 377  
     officinalis, 377  
 Sinapis, 377  
     alba, 377  
     nigra, 377  
 Smilax, 362  
 Soda, 379  
 Sodæ acetas, 379  
     arsenias, 380  
     boras, 380  
     carbonas, 381  
     chloras, 383  
     chlorinata liquor, 383  
     et potassæ tartras, 385  
     hydrosulphas, 383  
     phosphas, 384  
     sulphas, 384  
 Sodium, 378  
 Sodii bromidum, 378  
     chloridum, 378  
     chloro-platinas, 313  
     sulphuretum, 379  
 Solanum dulcamara, 193  
 Spigelia, 385  
     marilandica, 385  
 Spiræa, 386  
     tomentosa, 386  
 Spongia, 387  
 Stanni chloridum, 387  
     oxidum, 388  
     sulphuretum, 387  
 Stannum, 387  
 Staphisagria, 388  
 Stramonium, 388  
 Strychnia, 389  
 Strychniæ acetas, 390  
     iodas, 391  
     urias, 391  
     nitras, 391  
     sulphas, 391  
 Strychnos nux vomica, 288  
 Styra, 389  
     benzoin, 128  
     officinale, 389  
 Succinum, 391  
 Sulphur, 392  
 Sulphuris carburetum, 395  
     iodidum, 395  
 Symplocarpus fœtidus, 197

Tabacum, 395  
 Tamarindus, 397  
     indicus, 397  
 Tanacetum, 397  
     vulgare, 397  
 Tapioca, 397  
 Taraxacum, 398  
     dens leonis, 398  
 Terebinthina, 399  
 Theobroma cacao, 132  
 Tilia europæa, 400  
 Tolutanum, 400  
 Tormentilla, 401  
 Toxicodendron, 402  
 Tragacantha, 402  
 Tussilago, 403  
     farfara, 403  
  
 Ulmus campestris, 403  
     fulva, 403  
 Uva ursi, 404  
  
 Valeriana, 404  
     officinalis, 404  
 Vanilla, 406  
     aromatica, 406

Veratria, 407  
 Veratriæ murias, 408  
     nitræ, 408  
     sulphas, 408  
 Veratrum album, 408  
     sabadilla, 355  
     viride, 409  
 Veronica anagallis, 126  
     beccabunga, 126  
 Viola odorata, 409  
  
 Wintera, 410  
  
 Zincum, 410  
 Zinci acetæ, 413  
     carbonas, 413  
     chloridum, 411  
     cyanuretum, 412  
     ferro-cyanuretum, 412  
     iodidum, 412  
     oxidum, 410  
     sulphas, 414  
     valerianas, 415  
 Zingiber, 415  
     officinale, 415





# GENERAL INDEX.

Abbreviations in pharmaceutical formulæ, 33

Acetate of alumina, 87  
 — ammonia, 91  
 — copper, 185  
 — iron, 200  
 — lead, 313  
 — mercury, 235  
 — morphia, 280  
 — potassa, 329  
 — quinine, 342  
 — soda, 279  
 — strychnine, 390  
 — zinc, 413

Acetic acid, 68  
 — cataplasm, 68  
 — clyster, 68  
 — diluted, 68

Acid, acetic, 68  
 — arsenious, 69  
 — benzoic, 70  
 — boracic, 70  
 — citric, 71  
 — gallic, 71  
 — hydriodic, 72  
 — hydrocyanic, 71  
 — hydrosulphuric, 72  
 — lactic, 73  
 — muriatic, 73  
 — nitric, 74  
 — nitro-muriatic, 75  
 — oxalic, 75  
 — phosphoric, 75  
 — polygalic, 372  
 — pyroligneous, 69  
 — sulphuric, 75  
 — tannic, 76  
 — tartaric, 77  
 — valerianic, 77, 406

Acids, 53

Aconite, 77  
 — extract, 77  
 — alcoholic, 77  
 — ammoniated, 78  
 — pills of, 77  
 — mixture, 78  
 — ointment, 78  
 — ammoniated, 78  
 — plaster, 77  
 — powder, compound, 77  
 — tincture, 78  
 — wine, compound, 78

Aconitine, 78  
 — lotion, 78  
 — ointment, 78

Adhesive plaster, 348  
 — Baynton's, 317

Administration of medicines, 47

Affusion, 466

Agaric, white, 130  
 — pills, with opium, 130  
 — powder, 130

Agaric, white, powder, with opium, 130

Air in convalescence, 63

Alcohol, ammoniated, 94  
 — aromatic, 94  
 — mixture, 94  
 — anodyne, 94  
 — anisated, ammoniated, 94  
 — lotion, 94  
 — mixture, 94

Alkaloids, 461

Allspice, 309  
 — bolus of, 309  
 — spirit of, 309  
 — tincture of, 309  
 — water of, 309

Almonds, 98  
 — bitter, 98  
 — butter of, 99  
 — clyster, 100  
 — cold cream, 100  
 — confection of, 99  
 — cream of, 100  
 — emulsion of, 99, 100  
 — aromatic, 100

— fixature, 101  
 — jelly, 417  
 — linctus, green, 100  
 — white, 101  
 — liniment, cosmetic, 101  
 — Lockstadt's pills, 101  
 — lotion, 99  
 — Goulard's, 100  
 — Macassar oil, 101  
 — milk anodyne, 99  
 — artificial, 99  
 — of roses, 99  
 — mixtures, 101  
 — oil, 100  
 — of bitter, 100  
 — paste, 99  
 — powder, 99  
 — soap, 360  
 — sweet, 98  
 — syrup of orgeat, 99  
 — water of bitter, 100  
 — diuretic, 100

Aloes, 82

— clyster, 85  
 — decoction, compound, 84  
 — electuary, 84  
 — elixir, Boerhaave's, 85  
 — Clauder's, 85  
 — Garus', 86  
 — Stoughton's, 86  
 — injection, 85  
 — mixture, 85  
 — ointment, 86  
 — pills, 82  
 — Anderson's, 83  
 — antichlorotic, 83  
 — aperient, 84

- Aloes, pills, Barthez's, 84  
 ————— Becker's, 84  
 ————— Chapman's, 82  
 ————— compound, 82  
 ————— Duchesne's, 83  
 ————— Frank's, 84  
 ————— Fuller's, 83  
 ————— Griffith's, 84  
 ————— Hooper's, 83  
 ————— James's, 83  
 ————— Lady Webster's, 83  
 ————— Mitchell's, 82  
 ————— Morrison's, 83  
 ————— Peter's, 83  
 ————— Pittscharf's, 84  
 ————— Speediman's, 83  
 ————— splenetic, 83  
 ————— Whytt's, 84  
 ————— with assafetida, 82  
 ————— blue mass, 84  
 ————— iron, 82  
 ————— myrrh, 82  
 ————— powder, 82  
 ————— and canella, 82  
 ————— compound, 82  
 ————— emmenagogue, 82  
 ————— suppository, 84  
 ————— tincture, 85  
 ————— and myrrh, 85  
 ————— ethereal, 85  
 ————— wine, 85  
 ————— alkaline, 85  
 ————— balsamic, 85
- Alum, 87  
 ————— bolus, 88  
 ————— burnt, 87  
 ————— collyrium, 88  
 ————— curd, 88  
 ————— draught, 90  
 ————— electuary, 88  
 ————— errhine, 88  
 ————— gargle, 88, 89  
 ————— injection, 89  
 ————— julep, 89  
 ————— liniment, 89  
 ————— lotion, 89  
 ————— ointment, 90  
 ————— Anglo-Saxon, 90  
 ————— chilblain, 90  
 ————— pile, 90  
 ————— Rust's, 90  
 ————— pills, 88  
 ————— with benzoin, 88  
 ————— powder, 87  
 ————— root, 231  
 ————— solution, 89  
 ————— odontalgic, 88  
 ————— whey, 89, 261  
 ————— aromatic, 89, 261
- Alumine, 86  
 ————— acetate, 87  
 ————— astringent, Rust's, 87  
 ————— electuary, 87  
 ————— sulphate, 87  
 ————— wash, detergent, 87
- Amber, 391  
 ————— artificial musk, 391  
 ————— emulsion, 391  
 ————— tincture, 391  
 ————— balsam, 392  
 ————— eau de luce, 392  
 ————— liniment, 392  
 ————— mixture of oil, 392  
 ————— oil, 391  
 ————— purified, 391  
 ————— powder, fumigating, 391  
 ————— tincture, 392
- Amber tincture, alkaline, 392  
 ————— ethereal, 392
- American centaury, 356  
 ————— extract, 356  
 ————— infusion, 356  
 ————— tincture, 356  
 ————— columbo, 215  
 ————— infusion, 215  
 ————— tincture, 215  
 ————— hellebore, 409  
 ————— extract, 409  
 ————— mixture, 409  
 ————— ointment, 409  
 ————— pills, 409  
 ————— tincture, 409  
 ————— wine, 409  
 ————— senna, 150  
 ————— infusion, 151
- Ammonia, 90  
 ————— acetate, 91  
 ————— cataplasm, 92  
 ————— collyrium, 92  
 ————— mixture, 92  
 ————— solution, 91  
 ————— arseniate, 92  
 ————— solution, 92  
 ————— carbonate, 92  
 ————— aromatic, 92  
 ————— draught, 93  
 ————— with ginger, 93  
 ————— drops, 93  
 ————— liniment, 93  
 ————— mixture, 93  
 ————— ointment, 93  
 ————— Gondret's, 93  
 ————— pills, 93  
 ————— plaster, 93  
 ————— potion, 92  
 ————— tincture, compound, 93  
 ————— citrate, 94  
 ————— gargle, 90  
 ————— hydriodate, 94  
 ————— ointment, 94  
 ————— hydrosulphate, 94  
 ————— liniment, 95  
 ————— sulphuretted, 95  
 ————— syrup, 95  
 ————— injection, 91  
 ————— liniment, 90  
 ————— compound, 90  
 ————— sulphuretted, 91  
 ————— terebinthinate, 91  
 ————— lotion, 91  
 ————— Granville's, 90  
 ————— mixture, 91  
 ————— muriate, 95  
 ————— bolus, 95  
 ————— cataplasm, 95  
 ————— collutory, 95  
 ————— draught, 95  
 ————— emulsion, 96  
 ————— fomentation, 95  
 ————— liniment, 95  
 ————— lotion, 95  
 ————— powder, 95  
 ————— wash, 96  
 ————— nitrate, 96  
 ————— mixture, 96  
 ————— phosphate, 96  
 ————— solution, 96  
 ————— plaster, 91  
 ————— sinapism, 91  
 ————— spirit, fetid, 91  
 ————— succinate, 96  
 ————— impure, 96  
 ————— liniment, 97  
 ————— mixture, 96, 97



- Ammonia, succinate, spirit, 96  
     — with ether, 97  
     — succinic acid, 96  
     — sulphate, 97  
     — water, 90  
 Ammoniac mixture, 97, 98  
     — compound, 98  
     — with nitric acid, 98  
     — pills, 97  
     — compound, 97  
     — De Haen's, 97  
     — Klein's, 97  
     — with rhubarb, 97  
     — plaster, 98  
     — gum, 98  
     — with hemlock, 98  
     — mercury, 98  
 Ammoniated alcohol, 94  
     — anisated, 94  
     — lotion, 94  
     — mixture, 94  
     — aromatic, 94  
     — mixture, 94  
     — Vicat's, 94  
 Ammonio-citrate of iron, 205  
     — tartrate of iron, 213  
     — solution, 213  
 Amorphous quinine, 342  
 Anemone, 102  
     — collyrium, 102  
     — extract, 102  
     — pills, 102  
     — water, 102  
 Angelica, 102  
     — conserve, 103  
     — essence, 103  
     — errhine mixture, 103  
     — tincture, 103  
     — compound, 102  
     — tree, 110  
     — water, 103  
 Angustura, 103  
     — electuary, 103  
     — infusion, 103  
     — mixture, 103  
     — tincture, 103  
 Animal charcoal, 145  
 Anise, 103  
     — lozenges, 103  
     — mixture, 104  
     — oil of, 104  
     — spirit, 103  
     — tincture, 104  
 Antacids, 53  
 Anthelmintic purgative, 239  
 Anthelmintics, 54  
 Anthracokali, 146  
     — powder, 147  
     — compound, 147  
     — sulphuretted, 147  
 Anti-dysenteric opiate, 298  
 Antilithics, 54  
 Antimonial powder, 109  
     — James's, 109  
     — pills, with calomel, 109  
     — wine, 108  
 Antimony, 104  
     — chloride, 105  
     — nitro-muriatic oxide, 105  
     — ointment, 105  
     — sulphuret, 105  
     — golden, 106  
     — powder, 106  
     — Kermes mineral, 105  
     — emulsion, 106  
     — lozenges, 106  
     — mixture, 106  
 Antimony, sulphuret, Kermesine powder, 106  
     — compound, 106  
     — lozenges, 105  
     — mixture, 106  
     — with lime, 106  
     — pills, 106  
     — plaster, 107  
     — ointment, 105  
     — pills, 105  
     — precipitated, 105  
     — sulphate, 107  
     — tartrate and potassa, 107  
 Anti-odontalgic mass, 298  
 Antispasmodics, 54  
 Apothecaries' measure, 16  
     — weight, 12  
 Apple water, 418  
 Approximative measures, 17  
 Arrowroot, 274  
     — beef tea, 274  
     — milk, 274  
     — pudding, 274  
     — vanilla, 407  
     — water, 274  
 Arseniate of ammonia, 92  
     — iron, 201  
     — potassa, 330  
     — quinine, 343  
     — soda, 350  
     — solution, 350  
 Arsenic, 113  
     — iodine, 113  
     — sesquiodide, 113  
     — ointment, 113  
     — pills, 113  
     — solution with mercury, 114  
     — draught, 114  
 Arsenical solution, 330  
 Arsenious acid, 69  
     — cerate, 69  
     — ointment, 69  
     — pills, 69  
     — with opium, 70  
     — pepper, 69  
     — powder, 69  
     — compound, 69  
     — solution, 69  
 Arsenite of potassa, solution, 330  
 Arteriotomy, 476  
 Artificial musk, 391  
     — sulphuretted water, 73  
 Asarabacca, 115  
     — powder, compound, 115  
 Asparagus, 116  
     — decoction of roots, 116  
     — extract of roots, 116  
     — of shoots, 116  
     — mixture, 116  
     — syrup of shoots, 116  
 Assafetida, 116  
     — Dewees' carminative, 118  
     — enema, 118  
     — mixture, 117  
     — compound, 118  
     — with oxymel squills, 117  
     — tolu, 117  
     — pills, 116  
     — with aloes, 118  
     — iron, 117  
     — lactucarium, 116  
     — musk, 117  
     — opium, 117  
     — plaster, 118  
     — tincture, 117  
     — alkaline, 117  
     — ammoniated, 118  
     — and castor, 118

- Assafetida tincture and soot, 118  
 Asses' milk, artificial, 420  
 Atropine, 118  
     — solution, 118  
 Avens, 222  
     — mixture, 223  
     — powder, compound, 223  
     — water, 222  
     — decoction, 222  
     — white, 223  
 Azedarach, 124  
     — decoction, 124  
     — ointment, 124
- Balm, 277  
     — spirit, compound, 277  
     — water of, antihysteria, 277  
 Balsam acoustic, 285  
     — amber, 392  
     — cloves, aromatic, 149  
     — emulsion, 401  
     — Goulard's, 315  
     — inhalation, 401  
     — Locatelli's, 285  
     — lozenges, 400  
     — Metz's, 185  
     — mixture with almond emulsion, 401  
         — belladonna, 401  
         — copaiba, 401  
         — opium, 401  
         — morphia, 401  
     — nerve, 269  
     — of Peru, 285  
         — acoustic balsam, 285  
         — collutory, 285  
         — liniment, 285  
         — lotion, mammillary, 285  
         — mixture, 285  
         — ointment, 286  
         — compound, 286  
         — pills, 285  
         — plaster, 286  
         — syrup, 285  
         — tincture, 285  
     — of tolu, 400  
     — soap, camphorated acetic, 361  
     — sulphur, 395  
         — ethereal, 395  
         — terebinthinated, 395  
     — tincture, 400  
         — compound, 400  
         — with foxglove, 401  
     — toothache, 298  
     — Turlington's, 129  
     — syrup, 401
- Bandoline, 189  
 Barberry, 129  
     — lemonade, 129  
 Barium, 124  
     — chloride, 124  
     — collyrium, 125  
     — mixture, 125  
     — pills, 125  
     — powders, 124  
     — solution, 125  
     — iodide, 125  
     — ointment, 125  
     — powder, 125  
     — sulphuret, 125
- Barley, 231  
     — decoction, 231  
     — compound, 231  
     — with nitrate of potassa, 231  
     — meal, 231  
     — sugar, 231  
     — mixture, 420
- Barytes, 125  
     — acetate, 126  
     — liniment, 126  
     — solution, 125  
 Basilicon ointment, 348  
 Baths, 462  
     — aromatic, 353  
     — cold, 463  
     — common salt and gelatine, 378  
     — cool, 463  
     — douche, 465  
     — hot, 463  
     — hydrosulphuretted, 72  
     — iodide of iron, 208  
     — iodine, 251  
     — ioduretted, 324  
     — local, 465  
     — medicated, 466  
     — muriatic acid, 74  
     — nitro-muriatic acid, 75  
     — shower, 464  
     — sulphuret of potassium, 327  
         — sodium, 379  
     — temperate, 463  
     — tepid, 463  
     — vapor, 465  
     — warm, 463  
         — air, 465
- Baumé's hydrometer, 23  
     — table of agreement with  
         sp. gr., 25
- Bay tree, 263  
 Bebeerine, 126  
     — pills of sulphate, 126  
     — solution of, 126
- Beef essence, 418  
     — tea, 418  
     — arrowroot, 274
- Beer, ginger, 415, 420  
     — molasses, 420  
     — Peruvian bark, 166  
     — pipsissewa, 158  
     — sarsaparilla, 365  
     — spruce, 420
- Belladonna, 126  
     — clyster, 128  
     — extract, 127  
     — alcoholic, 127  
     — solution of, 127  
     — fumigation, 127  
     — liniment, 128  
     — mixture, 128  
     — ointment, 128  
     — opiated, 129  
     — pills, compound, 127  
     — plaster, 128  
     — powder, 126  
         — and rhubarb, 129  
     — syrup, 127  
         — Gillet's, 127  
     — tincture, 127  
         — ethereal, 128
- Benne, 376  
     — infusion, 877
- Benzoic acid, 70  
     — and copaiba mixture, 70  
     — and ipecacuanha powder, 70  
     — mixture, 70
- Benzoin, 128  
     — balsam, Turlington's, 127  
     — emulsion, 129  
     — lard, benzoated, 128  
     — lotion, 129  
     — milk of roses, 129  
     — oil, 129  
     — pastiles, fumigating, 128  
     — powder, 128  
         — fumigating, 128

- Benzoin tincture, 129  
     — compound, 129  
     — wash, 129  
 Bibromide of mercury, 236  
 Bicarbonate of potassa, 333  
     — of soda, 381  
 Biniodide of potassium, 323  
 Binoxalate of potassa, 336  
 Biscuit jelly, 417  
 Bismuth, 129  
     — subnitrate, 129  
     — ointment, 130  
     — pills, 130  
     — powder, compound, 129  
 Bistort, 130, 319  
     — clyster, astringent, 130  
     — extract, 319  
     — infusion, 130  
     — mixture, 319  
 Bisulphate of potassa, 337  
     — soda, 385  
 Bitartrate of potassa, 338  
 Bitter almonds,  
 Bittersweet, 193  
     — decoction, 193  
     — compound, 193  
     — extract, 193  
     — pills, 194  
     — mixture, 194  
     — syrup, 194  
 Black alder, 339  
     — decoction, 339  
     — drop, 300  
     — Guy's Hospital, 300  
     — Houlton's, 300  
     — Lancaster, 300  
     — Porter's, 300  
     — Rousseau's, 300  
     — hellebore, 229  
     — extract, 230  
     — ointment, 230  
     — pills, compound, 229  
     — tincture, 230  
     — mixture, 230  
     — vino-alcoholic, 230  
     — pills, 230  
     — wine, compound, 230  
     — oak, 341  
     — oxide of iron, 209  
     — mercury, 244  
     — pepper, 310  
     — cataplasm, 310  
     — confection, 310  
     — electuary, 310  
     — oil, resinous, 310  
     — volatile, 310  
     — ointment, 310  
     — plaster, 310  
     — Ward's paste, 310  
     — pitch, 312  
     — ointment, 312  
     — plaster, 313  
     — purslane, 198  
     — infusion, 198  
     — snakeroot, 160  
     — decoction, 160  
     — tincture, 160  
     — sulphuret of mercury, 246  
 Blackberry, 354  
     — decoction, 354  
     — syrup, 355  
 Blancmange isinglass, 420  
     — rice, 420  
 Blessed thistle, 154  
     — infusion, 154  
     — wine, 154  
 Blistering court plaster, 144  
 Blisters, 38, 470  
 Blood-letting, 474  
     — general, 474  
     — topical, 474  
 Bloodroot, 359  
     — infusion, 360  
     — pills, 360  
     — tincture, 360  
 Blue pills, 284  
     — and colocynth, 284  
     — jalap, 284  
     — quinine, 284  
     — rhubarb, 284  
 Boiled flour, 418  
 Bolus, 447  
     — acetate of morphia, 282  
     — potassa, 329  
     — allspice, 309  
     — alum, 88  
     — ammoniated iron, 201  
     — burnt sponge, 387  
     — castor, 151  
     — catechu, 152  
     — chloride of gold, 121  
     — cinchonia, 166  
     — copaiba, 177  
     — croton oil, 293  
     — foxglove, 190  
     — ipecacuanha, 253  
     — iron, metallic, 200  
     — male fern, 214  
     — musk, 283  
     — narcotine, 288  
     — oxide of manganese, 273  
     — Peruvian bark, extract of, 162  
     — pomegranate root, 226  
     — sal ammoniac, 95  
     — soap, 361  
     — sulphate of morphia, 282  
     — sulphuret of potassium, 326  
     — tartar emetic, 107  
     — valerian and iron, 405  
     — sulphate of potassa, 405  
 Boneset, 198  
     — decoction, 198  
     — infusion, 198  
     — compound, 198  
 Boracic acid, 70  
     — collutory, 70  
     — mixture, 70  
 Borate of soda, 380  
 Borax, 380  
     — collutory, 380  
     — collyrium, 380  
     — gargle, 380  
     — honey, 380  
     — lotion, 380  
     — lozenges, 380  
     — mixture, 381  
     — ointment, 381  
     — powder, compound, 380  
     — vinegar, 380  
 Boullay's filter, 452  
 Bowman's root, 198  
 Box, 131  
     — oil, 131  
 Bran tea, 419  
 Bread jelly, 417  
 British oil, 307  
 Bromide of iron, 201  
     — mercury, 236  
     — potassium, 319  
     — sodium, 378  
 Bromine, 130  
     — solution, 130  
     — alcoholic, 130  
 Brooklime, 126



- Brooklime, syrup, 126  
                   water, 126  
 Broom, 371  
     — conserve, 371  
     — decoction, 371  
     — compound, 371  
     — extract, 371  
     — infusion, 371  
 Broth, mutton, 417  
     — vegetable, 417  
 Brown mixture, 224  
 Brucine, 130  
     — acetate, 131  
     — muriate, 131  
     — pills, 131  
     — solution, 131  
     — sulphate, 131  
     — tincture, 131  
 Bryony, 131  
     — cataplasm, 131  
     — compound, 131  
     — wine, 131  
 Buchu, 192  
     — extract, 192  
     — fluid, 192  
     — infusion, 192  
     — compound, 192  
     — tincture, 192  
 Buckbean, 278  
     — extract, 278  
     — infusion, 278  
     — mixture, 278  
     — diuretic, 278  
     — pills, compound, 278  
 Burdock, 110  
     — decoction, 110  
     — infusion, 110  
 Burgundy pitch, 311  
 Burnt alum, 87  
     — hartshorn, 137, 180  
     — sponge,  
     — sugar, 357  
 Butter of almonds, 99  
     — cocoa, 132  
     — mixture, 132  
     — ointment, 132  
 Butternut, 257  
     — extract, 257  
 Button snakeroot, 257  
  
 Cabbage tree bark, 222  
     — decoction, 222  
     — extract, 222  
     — mixture, 222  
 Cadmium, 133  
     — sulphate, 133  
     — ointment, 133  
     — solution, 133  
 Cajeput oil, 289  
     — liniment, 289  
     — mixture, 289  
 Cakes, soda, 421  
 Calamine, 413  
 Calamus, 133  
     — electuary, 133  
     — infusion, 133  
     — compound, 133  
     — tincture, 133  
     — compound, 133  
 Calcium, 133  
     — chloride, 133  
     — cataplasm, 133  
     — mixture, 134  
     — pills, 134  
     — solution, 133  
     — iodide, 135  
     — pills, 135  
     — Calcium, sulphuret, 135  
         — liniment, 135  
         — pills, compound, 135  
 Calomel, 238  
     — collyrium, dry, 239  
     — electuary with, 241  
     — pills, 239  
     — and acetate of lead, 239  
     — antimony, 240  
     — catechu, 230  
     — colocynth, 240  
     — dandelion, 240  
     — guaiacum, 240  
     — jalap, 240  
     — iron, 240  
     — opium, 240  
     — quinine, 239  
     — squill, 240  
     — cathartic, compound, 240  
     — compound, 240  
     — ointment, 241  
     — with acetate of copper, 241  
     — alum, 241  
     — camphor, 241  
     — squill, 241  
     — powder with antimony, 238  
     — and henbane, 239  
     — anthelmintic, 239  
     — with foxglove, 239  
     — gamboge, 239  
     — jalap, 239  
     — and rhubarb, 239  
     — nitrate of potassa, 239  
     — opium, 239  
     — pink root, 239,  
 Calves' foot jelly, 418  
 Camphor, 138  
     — and chloroform, 140  
     — ether, 140  
     — Hoffmann's anodyne, 139  
     — laudanum, 139  
     — milk, 139  
     — nitric acid, 139  
     — clyster, 140  
     — collyrium, 141  
     — cough mixture, 141  
     — essence, Ward's, 140  
     — emulsion, 139  
     — infusion, 139  
     — liniment, 140  
     — and turpentine, 141  
     — vinegar, 140  
     — compound, 140  
     — ethereal, 140  
     — mixture, 139  
     — nitrate, 141  
     — ointment, 140  
     — pills, 138  
     — and lactucarium, 138  
     — musk, 138  
     — compound, 138  
     — powder, 138  
     — compound, 138  
     — tincture, 139  
     — and saffron, 139  
     — ethereal, 139  
     — mixture, 140  
     — water, 139  
 Canada extract, 197  
     — fleabane, 197  
     — infusion, 197  
     — pitch, 312  
 Canella, 141  
 Cantharides, 141  
     — court-plaster, blistering, 144  
     — decoction, 143

- Cantharides, emulsion, 142  
     extract, 142  
     ethereal, 143  
     infusion, 142  
     liniment, 143  
     and camphor, 143  
     soap, 143  
     stimulating, 144  
     oil, 143  
     ointment, 143  
     issue, 144  
     pills with capsicum, 142  
     iron, 142  
     plaster, 144  
     camphorated, 144  
     compound, 144  
     odontalgic, 144  
     pomatum, 144  
     powder with camphor, 142  
     savine, 142  
     shampoo liquid, 144  
     tincture, 142  
     camphorated, 142  
     ethereal, 143  
     camphorated, 143  
     with guaiacum, 142  
     vinegar, 142  
 Caramel, 357  
 Caraway, 148  
     embrocation, 149  
     infusion, 148  
     oil, 149  
     spirit, 149  
     water, 148  
 Carbon, iodide, 147  
     ointment, 147  
     sulphuret of, 395  
     drops, 395  
     liniment, 395  
     mixture, 395  
 Carbonate of ammonia, 92  
     iron, 202  
     lead, 316  
     lime, 136  
     magnesia, 270  
     manganese, 272  
     potassa, 331  
     soda, 381  
     zinc, 413  
 Carburet of iron, 203  
     sulphur, 395  
 Cardamom, 147  
     confection, 147  
     extract, ethereal, 148  
     powder, aromatic, 147  
     syrup, 148  
     tincture, 147  
     compound, 148  
 Carminative, Dalby's, 270  
     Dewees', 118, 270  
 Carrageen, 159  
     decoction, 159  
     jelly, 160  
     mixture, 160  
 Carrot, 148  
     cataplasm, 148  
     extract, 148  
     infusion of seeds, 148  
     ointment, 148  
 Cascarilla, 150  
     extract, 150  
     mixture, 150  
     infusion, 150  
     alkaline, 150  
     powder, compound, 150  
     tincture, 150  
     wine, compound, 150  
 Cassia, purging, 150  
     confection, 150  
     mixture, 150  
     pulp, 150  
 Castanella's powders, 417  
 Castor, 151  
     lotus, 151  
     oil, 291  
     clyster, 292  
     emulsion of, 291  
     seeds, 291  
     fixature, 292  
     mixture, 291  
     with ether, 292  
     pills, 151  
     plaster, compound, 151  
     powder, compound, 151  
     spirit, compound, 151  
     tincture, 151  
     ammoniated, 151  
     compound, 151  
     ethereal, 151  
     with succinic acid, 151  
 Catalpa, 152  
     decoction, 152  
 Cataplasms, 468  
     acetate of lead, 315  
     acetic acid, 68  
     black pepper, 310  
     bryony, 131  
     compound, 131  
     carrot-root, 148  
     Cayenne pepper, 145  
     charcoal, 146  
     chloride of calcium, 133  
     clove, 149  
     emollient, 267  
     flaxseed, 267  
     foxglove, 191  
     garlic, 81  
     hemlock, 176  
     hops, 232  
     horseradish, 112  
     iodine, 252  
     lead, 317  
     long pepper, 310  
     mayweed, 181  
     mercurial, 235  
     mustard, 377  
     compound, 377  
     oak bark, 342  
     oatmeal, 124  
     Peruvian bark, 165  
     powder for, 124  
     pyroligneous acid, 69  
     sal ammoniac, 95  
     slippery elm, 404  
     soap, 362  
     soot, 216  
     subacetate of lead, 314  
     tobacco, 396  
     vinegar, 67  
 Catechu, 152  
     bolus, 152  
     compound, 152  
     collutory, 153  
     electuary, 153  
     infusion, 153  
     compound, 153  
     injection, 153  
     lozenges, 153  
     mixture, 153  
     anti-emetic, 153  
     with logwood, 153  
     pastilles, aromatic, 153  
     pills with alum, 152  
     liquorice, 152

- Catechu powder, compound, 152  
     tincture, 153  
 Cathartics, 55  
 Catnep, 152  
     infusion, 152  
 Caudle, 420  
 Caustic chloride of gold, 120  
     potassa, 328  
     soda, 379  
 Caustics, 60  
 Cayenne pepper, 144  
     cataplasm, 145  
     gargle, 145  
     infusion, 145  
     loction, 145  
     lozenges, 145  
     pills, 145  
     tincture, 145  
     with cantharides, 145  
     vinegar, 145  
 Celandine, 156  
     extract, 157  
     mixture, 157  
     pills, 157  
 Cement, diamond, 250 *Liquid Glue 250*  
     parolic, 261  
     shell lac, 262 *Marine Glue 262*  
 Centaury, 154  
     American, 154  
     extract, 154  
     mixture, 154  
     pills, 154  
     Portland powder, 154  
     wine, compound, 154  
 Cerate, 471  
     acetate of lead, 314  
     arsenical, 69  
     carbonate of zinc, 413  
     cherry laurel, 264  
     croton oil, 295  
     eggs, 305  
     lead, 317  
     mercurial, 235  
     compound, 235  
     opium, 299  
     oxide of zinc and lycopodium, 411  
     Peruvian bark, 165  
     phosphorated, 309  
     pitch, 312  
     red sulphuret of mercury, 247  
     resin, 348  
     compound, 348  
     savine, 357  
     spermacet, 155  
     subacetate of lead, 315  
     sulphur, 394  
 Ceromel, 276  
 Cetrarine, 156  
     powder, 156  
 Cevadilla, 355  
     Capuchin, 356  
     extract, 355  
     ointment, 356  
     ointment, 356  
     powder, compound, 355  
     tincture, 355  
 Chalk, 136  
     mixture, 136  
     prepared, 136  
 Chalybeate water, artificial, 203  
 Chamomile, 104  
     decoction, compound, 104  
     extract, 104  
     pills, compound, 104  
     German, 276  
     infusion, 104  
     mixture, 104  
 Chamomile syrup, 104  
 Charcoal, animal, 145  
     ointment, 146  
     powder, 145  
     purified, 145  
     cataplasm, 146  
     electuary, 146  
     lozenges, 146  
     mineral, 146  
     ointment, 146  
     powder, dentifrice, 146  
     and quassia, 146  
     suppository, 146  
     wood, 146  
 Cheltenham salts, 271  
 Cherry cerate, 264  
     infusion, 264  
     laurel, 264  
     ointment, 264  
     water, 264  
     loction, 264  
     mixture, 264  
 Chicken jelly, 419  
     panada, 419  
     water, 418  
 Chinoidine, 342  
 Chiretta, 158  
     infusion, 158  
     tincture, 158  
 Chlorate of potassa, 334  
     soda, 383  
 Chloride of barium, 124  
     calcium, 133  
     gold, 120  
     and sodium, 121  
     iron, 204  
     lead, 316  
     lime, 134  
     potassium, 319  
     silver, 110  
     soda, 383  
     sodium, 378  
     zinc, 411  
 Chlorinated lime, 134  
     soda, 383  
 Chlorine, 158  
     clyster, 159  
     collutory, 158  
     gargle, 158  
     injection, 158  
     liniment, 159  
     mixture, 159  
     oil, 159  
     ointment, 159  
     water, 158  
 Chloroform, 159  
     emulsion, 159  
     liniment, 159  
 Chloroplatinate of sodium, 313  
     injection of, 313  
 Chocolate, 420  
     aromatic, 132  
     cream, 132  
     Iceland moss, 156  
     milk, 420  
     paullinia, 307  
     purgative, 367  
     salep, 132  
     vanilla, 132  
     white, 132  
 Cinchonia, 166  
     boluses, 167  
     kinate, 166  
     muriate, 166  
     pills, 166  
     sulphate, 166  
     pills, 167



- Cinchonia, sulphate, wine, 167  
     — syrup, 167  
     — tincture, 167  
     — wine, 167  
 Cinnamon, 167  
     — electuary, compound, 167  
     — infusion, 167  
     — lozenges, 167  
     — oil, 168  
     — plaster, spiced, 168  
     — powder, compound, 167  
     — tincture, 167  
         — compound, 168  
         — ethereal, 168  
     — vinegar, compound, 167  
     — water, 168  
         — compound, 168  
     — wine, compound, 167  
 Citrate of ammonia, 95  
     — iron, 205  
     — and quinia, 205, 343  
     — magnesia, 271  
     — morphia, 281  
     — potassa, 334  
     — quinine, 343  
 Citric acid, 71  
     — lozenges, 71  
     — syrup, 71  
 Cleanliness in sick room, 46  
 Cloves, 149  
     — bag, 149  
     — balsam, 149  
     — cataplasm, 149  
     — infusion, 149  
     — mixture, odontalgic, 149  
     — oil, 149  
     — plaster, 149  
     — spirit, 149  
     — tincture, 149  
     — water, 149  
     — wine, 149  
 Clysters, 55  
     — acetate of morphia, 281  
     — acetic acid, 68  
     — anthelmintic, of aloe, 85  
     — assafetida, 118  
     — belladonna, 128  
     — bistort, 130  
     — camphor, 140  
     — castor oil, 292  
     — chlorine, 159  
     — colocynth, 173  
     — common salt, 378  
     — and arnica, 379  
     — copaiba, 179  
     — cubebs, 184  
     — dandelion, 399  
     — egg, 305  
     — emollient, oil of almonds, 100  
         — malt, 272  
     — ergot, 197  
     — flaxseed oil, 267  
     — iodine, 252  
     — laudanum, 303  
     — and valerian, 303  
     — musk, 284  
     — olive oil, 291  
     — opium, 299  
     — Peruvian bark, 165  
     — rhatany, 260  
     — soap, 362  
     — southernwood, 114  
     — stimulating, with nutmeg, 284  
     — sulphate of magnesia, 271  
     — quinine, 347  
     — soda, 385  
     — tartar emetic, 108  
     — Clysters, tartarized soda, 385  
         — turpentine, 399  
         — oil, 293  
         — wormwood, 65  
 Cocculus indicus, 168  
     — ointment, 168  
     — microtoxin, 168  
 Cochineal, 168  
     — tincture, 169  
     — with carbonate of potassa, 169  
     — common salt, 169  
 Cocoa, 132  
     — butter, 132  
     — ointment, 132  
     — mixture, 132  
     — chocolates, 132  
         — aromatic, 132  
         — cream, 132  
         — salep, 132  
         — vanilla, 132  
         — white, 132  
     — powders, compound, 132  
     — palamond, 132  
     — racahout, 132  
     — wikana, 132  
 Codeia, 169  
     — and muriate of morphia, 169  
     — syrup, 169  
 Cod liver oil, 290  
     — compound, 290  
     — liniment, 290  
     — mixture, 290  
     — ointment, 290  
     — compound, 290  
     — syrup, 290  
 Coffee, 169  
     — acorn, 342  
     — decoction, 170  
     — figs, 214  
     — milk, 420  
     — syrup, 170  
     — vinegar, 170  
 Colchicum, 170  
     — extract bulb, 170  
         — acetic, 170  
     — liniment, with camphor, 172  
     — mixture, 171  
         — with ammonia, 172  
         — elaterium, 171  
         — magnesia, 171  
         — squill, 172  
         — sulphate magnesia, 171  
     — oxymcl, 171  
     — pills, 170  
     — compound, 170  
     — syrup, 171  
     — tincture,  
         — flowers, 171  
         — seeds, 176  
         — and foxglove, 171  
         — compound, 171  
         — mixture, 171  
     — vinegar, root, 171  
         — seeds, 171  
         — mixture, 172  
     — wine, compound, 171  
         — mixture, 172  
         — root, 170  
         — seeds, 170  
 Cold bath, 463  
     — cream, 100, 155  
     — without spermaceti, 155  
     — custard, 419  
 Collodion, 225  
 Collutory, balsam of Peru, 285  
     — boracic acid, 70  
     — borax, 380

- Collutory, carbonate of potassa, 332  
 — catechu, 153  
 — chlorinated lime, 134  
 — chlorine, 158  
 — creasote, 182  
 — hemlock, 175  
 — lemon juice, 265  
 — mastic, aromatic, 275  
 — myrrh, 286  
 — nitric acid, 74  
 — pyroligneous acid, 69  
 — rhatany, 260  
 — rose water, 352  
 — sal ammoniac, 95  
 — soot, 216  
 Collyrium, acetate of lead, 314  
 — zinc, 413  
 — alum, 88  
 — anemone, 102  
 — anodyne, 299  
 — antimonial wine, 108  
 — biniodide of potassium, 324  
 — borax, 380  
 — calomel, dry, 239  
 — camphor, 141  
 — carbonate of potassa, 332  
 — caustic potassa, 329  
 — chloride of barium, 125  
 — gold, 121  
 — corrosive sublimate, 238  
 — iodide of zinc, 413  
 — nitrate of silver, 111  
 — saffron, 183  
 — strychnine, 390  
 — subacetate of lead, 314  
 — sulphate of copper, 188  
 — zinc, 414  
 — and camphor, 414  
 — wine of opium, 301  
 Colocynth, 172  
 — clyster, 173  
 — extract, 172  
 — compound, 172  
 — mixture, 173  
 — pills, and henbane, 173  
 — compound, 173  
 — powder, 172  
 — tincture, 173  
 — mixture, 173  
 Columbo, 173  
 — American, 215  
 — decoction, compound, 174  
 — extract, 174  
 — infusion, 174  
 — and ginger, 174  
 — rhubarb, 174  
 — mixture, 174  
 — and cascarrilla, 174  
 — salep, 174  
 — pills, compound, 174  
 — powder and iron, 173  
 — ginger, 174  
 — magnesia, 173  
 — tartrate of iron, 174  
 — tincture, 174  
 Coltsfoot, 403  
 — decoction, 403  
 — compound, 403  
 — syrup, 493  
 Common salt, 378  
 — bath, with gelatine, 378  
 — clyster, 378  
 — with arnica, 379  
 — fomentation, 378  
 — mixture with lemon juice, 379  
 — ointment, 379  
 — compound, 379  
 Common salt powder, compound, 378  
 — with cochineal, 378  
 Confections, 449  
 Confection acorns, 342  
 — almonds, 99  
 — aromatic, 147  
 — black pepper, 310  
 — cassia, 150  
 — copaiba, 178  
 — dog rose, 352  
 — ipecacuanha, 254  
 — orange flowers, 120  
 — peel, 119  
 — roses, 353  
 — scammony, 366  
 — senna, 373  
 — compound, 373  
 Conserves, 449  
 Conserve of acetate of potassa, 329  
 — angelica, 103  
 — broom, 371  
 — violets, 409  
 Contrayerva, 176  
 — decoction, 176  
 — extract, 176  
 — gargle, 177  
 — mixture, 177  
 — powder, compound, 176  
 — tincture, 177  
 — compound, 177  
 Copaiba, 177  
 — boluses, 177  
 — clyster, 179  
 — confection, 178  
 — emulsion, 178  
 — injection, 178  
 — mixture, 178  
 — oil, 179  
 — paste, 179  
 — pills, 177  
 — and cubebs, 177  
 — cubebs and turpentine, 178  
 — tincture, 179  
 — alkaline, 179  
 — compound, 179  
 Copper, 185  
 — acetate, 185  
 — ammoniated, 186  
 — gargle, 187  
 — injection, 187  
 — ointment, 187  
 — pills, 187  
 — compound, 187  
 — powder, with belladonna, 187  
 — solution, 187  
 — muriate, 186  
 — and ammonia, 186  
 — cupreous ether, 186  
 — Koechlin's drops, 186  
 — solution, with mercury, 186  
 — subacetate, 185  
 — balsam, Metz's, 185  
 — liniment, 186  
 — lotion, compound, 185  
 — ointment, 186  
 — Egyptian, 186  
 — pills, 185  
 — with alum, 185  
 — plaster, 186  
 — powder, with savine, 185  
 — wash, ophthalmic, 185  
 — sulphate, 187  
 — collyrium, 188  
 — electuary, 188  
 — gargle, 188  
 — lotions, 188

- Copper, sulphate, ointment, 188  
     — pills, 189  
     — and opium, 187  
     — compound, 188  
     — powder, compound, 187  
     — styptic, 188  
 Cordial, Godfrey's, 302  
     — Warner's, 351  
 Coriander, 179  
     — powder, compound, 180  
     — tincture, 180  
     — water, compound, 180  
 Corrosive sublimate, 237  
     — collyrium, 238  
     — injection, 238  
     — lotion, 237  
         — Bateman's, 238  
         — cosmetic, 237  
         — with camphor, 238  
         — copper, 238  
     — mixture, 237  
     — pills, 237  
         — compound, 237  
     — powder with copper, 237  
         — zinc, 237  
     — solution, 237  
         — alcoholic, 237  
     — tincture, antacid, 238  
     — wash, cosmetic, 238  
     — yellow, 238  
 Cotton, 234  
     — decoction of root, 224  
     — solution, ethereal, 225  
 Court plaster, 249  
 Cowhage, 284  
     — electuary, 284  
 Cranesbill, 222  
     — decoction, 222  
     — extract, 222  
 Cream, chocolate, 132  
     — cold, 100, 155  
     — without spermaceti, 155  
     — of tartar, 338  
 Creasote, 181  
     — collutory, 182  
     — lotion, 182  
     — mixture, 181, 182  
     — ointment, 182  
     — compound, 182  
     — pills, 181  
     — solution, alcoholic, 182  
 Cremor tartar, 338  
 Croton oil, 293  
     — bolus, 293  
     — cerate, 295  
     — embrocation, 295  
     — emulsion, 294  
     — liniment, 294  
     — lozenges, 294  
     — mixture, 294  
     — ointment, 295  
     — pills, 293  
         — compound, 294  
         — with blue mass, 294  
         — quinine, 294  
     — plaster, 295  
     — soap, 294  
     — solution, saponaceous, 294  
     — tincture, 294  
 Cubebs, 183  
     — clyster, 184  
     — electuary, 184  
     — extract, alcoholic ethereal, 184  
         — emulsion, 184  
         — ethereal, 184  
     — lozenges, 184  
     — lozenges, alcoholic ethereal extract, 184  
 Cubebs, mixture, 184  
     — oil and copaiba, 185  
     — oil, 185  
     — powder, 183  
         — and alum, 183  
         — ergot, 183  
         — hemlock, 183  
     — syrup, alco-ether. extract, 184  
     — tincture, 184  
 Cuckoo flower, 147  
 Cumin, 189  
     — plaster, 189  
 Cyanide of gold, 122  
     — mercury, 241  
     — potassa, 320  
     — silver, 110  
     — zinc, 412  
 Cyanuret of gold, 122  
     — mercury, 241  
     — potassium, 320  
     — silver, 110  
     — zinc, 412  
 Cupping, 476  
 Custard, cold, 419  
     — rice, 420  
 Dalby's carminative, 270  
 Dandelion, 398  
     — clyster, 399  
     — decoction, 398  
     — extract, 398  
         — fluid, 398  
         — pills, 398  
         — with blue mass, 398  
     — infusion, compound, 398  
     — mixture, 398  
 Decoction, 451  
     — aloes, compound, 84  
     — arnica, 113  
     — asparagus, 116  
     — azedarach, 124  
     — barley, 231  
         — compound, 231  
     — bittersweet, 193  
         — compound, 193  
     — black alder, 339  
         — snakeroot, 160  
     — blackberry root, 355  
     — boneset, 198  
     — broom, 371  
         — compound, 371  
     — burdock, 110  
     — cabbage tree bark, 222  
     — cantharides in turpentine, 143  
     — carrageen, 159  
     — catalpa, 152  
     — chamomile, compound, 104  
     — coffee, raw, 170  
     — coltsfoot, 403  
         — compound, 403  
     — columbo, compound, 174  
     — contrayerva, 176  
     — cotton-root, 224  
     — dandelion, 398  
     — dogwood, 181  
     — elder bark, 359  
     — elecampane, 250  
     — elm bark, 403  
     — ergot, 196  
     — figs, 213  
         — compound, 213  
     — geranium, 222  
     — guaiacum wood, 226  
         — compound, 226  
     — hairy horehound, 124  
     — hardhack, 387  
     — horehound, compound, 274



- Decoction, horse balm, 172  
 ————— horsechestnut bark, 247  
 ————— compound, 247  
 ————— Iceland moss, 156  
 ————— Indian hemp, 109  
 ————— sarsaparilla, 231  
 ————— ipecacuanha, 254  
 ————— logwood, 228  
 ————— madder, 354  
 ————— marshmallow, 86  
 ————— matico, 275  
 ————— mezercon, 278  
 ————— compound, 279  
 ————— New Jersey tea, 154  
 ————— oak bark, 342  
 ————— oatmeal, compound, 123  
 ————— Pareira brava, 306  
 ————— Peruvian bark, 162  
 ————— and cascarilla, 163  
 ————— rhatany, 163  
 ————— compound, 163  
 ————— pipsissewa, 157  
 ————— compound, 157  
 ————— pomegranate rind, 225  
 ————— root, 225  
 ————— poppy heads, 306  
 ————— sarsaparilla, 362  
 ————— compound, 362  
 ————— Feltz's, 363  
 ————— Jauperand's, 363  
 ————— Vinache's, 363  
 ————— Zittman's, 363  
 ————— seneka, 372  
 ————— soot, 215  
 ————— stavesacre, 388  
 ————— tormentil, 402  
 ————— uva ursi, 404  
 ————— water avens, 222  
 ————— wild indigo, 124  
 ————— willow bark, 358  
 ————— wormseed, 157  
 Delphinia, 189  
 ————— ointment, 189  
 ————— solution, 189  
 Demulcents, 56  
 Dentifrice, bitartrate potassa, 338  
 ————— burnt hartshorn, 180  
 ————— charcoal, 146  
 ————— chlorinated lime, 134  
 ————— electuary, 136, 137  
 ————— mastic, 275  
 ————— orris root, 255  
 ————— Peruvian bark, 161  
 ————— phosphate of lime, 137  
 ————— rhatany, 259  
 ————— sulphate of quinine, 347  
 ————— willow bark, 358  
 ————— with carbonate of lime, 136  
 Dewberry, 354  
 Dewces' carminative, 118, 270  
 Diaphoretics, 57  
 Diet-drink, Lisbon, 363  
 Diet in convalescence, 63  
 Digitalin, 192  
 ————— pills, 192  
 ————— granules, 192  
 Diluents, 57  
 Dippel's animal oil, 259  
 ————— liniment, 289  
 ————— mixture, 289  
 ————— tincture, 289  
 Displacement, 452  
 Distillation, 455  
 Distilled oils, 456  
 ————— waters, 455  
 Dittany, 185  
 ————— infusion, 185  
 Dittany, oil, 185  
 Diuretics, 57  
 Dog rose, 352  
 ————— confection, 352  
 Dogwood, 180  
 ————— decoction, 181  
 ————— Jamaica, 311  
 ————— pills, 181  
 ————— round-leaved, 180  
 ————— swamp, 180  
 ————— tree, 180  
 ————— wine, 181  
 Dogsbane, 109  
 Donovan's solution, 114  
 Dose of medicines, 50  
 Drops, 17, 462  
 ————— Bateman's, 302  
 ————— Battley's, 302  
 ————— carminative, 269  
 ————— Koechlin's, 186  
 ————— odontalgic, 301  
 ————— table of, 17  
 ————— toothache, 298  
 Draughts, 454  
 Draught, anodyne, 303  
 ————— morphia, 280  
 ————— solution, iodide, arsenic and mercury,  
 114  
 ————— sugar of milk, 267  
 ————— sulphate potassa, effervescing, 337  
 Eau de Javelle, 320  
 ————— de luce, 97, 392  
 Effervescing draught, 333, 381  
 ————— powders, 333, 381  
 Eggs, 305  
 ————— cerate, 305  
 ————— clyster, emollient, 305  
 ————— restorative, 305  
 ————— emulsion, 305  
 ————— liniment, 305  
 ————— mixture, 305  
 ————— with brandy, 305  
 ————— wine, 305  
 ————— oil, 305  
 Elaterine, 195  
 ————— tincture, 195  
 Elaterium, 194  
 ————— mixture, 194  
 ————— oil, 195  
 ————— pills, 194  
 Elder, 359  
 ————— decoction of bark, 359  
 ————— extract of berries, 359  
 ————— mixture, 359  
 ————— gargle, 359  
 ————— ointment, 359  
 ————— leaves, 359  
 ————— vinegar, 359  
 ————— water of flowers, 359  
 Elecampane, 250  
 ————— decoction, 250  
 ————— extract, 250  
 ————— mixture, 250  
 ————— oxymel, compound, 250  
 ————— pills, compound, 250  
 Electuaries, 449  
 Electuary, anthelmintic, 84  
 ————— dentifrice, 136, 137  
 ————— laxative, 84  
 ————— for teeth, 87  
 ————— of alum, 88  
 ————— angustura, 103  
 ————— bitartrate of potassa, 339  
 ————— black oxide of iron, 210  
 ————— pepper, 310  
 ————— burnt sponge, 387

- Electuary of calamus, 133  
 ——— calomel, 241  
 ——— carburet of iron, 203  
 ——— catechu, 153  
 ——— charcoal, 146  
 ——— cinnamon, compound, 167  
 ——— cowhage, 284  
 ——— cubebs, 184  
 ——— indigo, 250  
 ——— jalap, 256  
 ——— juniper, 258  
 ——— kino, 259  
 ——— logwood, extract of, 228  
 ——— male fern, 214  
 ——— orange leaves, 119  
 ——— peel, 119  
 ——— Peruvian bark, 164  
 ——— astringent, 164  
 ——— with catechu, 164  
 ——— cloves, 164  
 ——— iron, 164  
 ——— sulphur, 164  
 ——— tin, 164  
 ——— pomegranate root, 225  
 ——— rhatany, 259  
 ——— rhubarb, 349  
 ——— roses, 353  
 ——— scurvy grass, 169  
 ——— semen contra, 115  
 ——— senna and cremor tartar, 373  
 ——— figs, 373  
 ——— rhubarb, 373  
 ——— sulphur, 373  
 ——— soap, 361  
 ——— squill, 370  
 ——— sulphate of copper, 188  
 ——— soda, 384  
 ——— sulphur, 393  
 ——— compound, 393  
 ——— sulphuret of potassium, 326  
 ——— tamarinds, 397  
 ——— tin, 387  
 ——— turpentine, 399  
 ——— valerian, 405  
 ——— Virginia snakeroot, 376  
 Elemi, 195  
 ——— cautery plaster, 195  
 ——— ointment, 195  
 Elixir, vitriol, 75  
 ——— Boerhaave's, 85  
 ——— Clauder's, 85  
 ——— Garus', 86, 183  
 ——— ipecacuanha, 255  
 ——— Lettsom's, 303  
 ——— orange peel, 119  
 ——— scammony, 366  
 ——— Stoughton's, 86  
 Elm bark, 403  
 ——— decoction, 403  
 ——— infusion, 403  
 ——— slippery, 403  
 Elutriation, 447  
 Embrocation, caraway, 149  
 ——— croton oil, 295  
 ——— petroleum, 307  
 Embrocations, 469  
 Emetic, tartar, 107  
 Emetics, 57  
 Emetin, 195  
 ——— impure, 195  
 ——— lozenges, 196  
 ——— mixture, 195  
 ——— pure, 195  
 ——— syrup, 196  
 Emmenagogues, 58  
 Emollients, 56  
 Emulsions, 454  
 ——— Emulsion, 454  
 ——— almond, 99, 100  
 ——— aromatic, 100  
 ——— anthelmintic, 291, 375  
 ——— artificial musk, 392  
 ——— benzoin, cosmetic, 129  
 ——— camphor, 139  
 ——— cantharides, 142  
 ——— carbonate of potassa, 332  
 ——— castor oil seeds, 291  
 ——— chloroform, 159  
 ——— copaiba, 178  
 ——— croton oil, 294  
 ——— cubebs, ethereal extract, 184  
 ——— egg, 305  
 ——— hemp seed, 141  
 ——— jalap, 256  
 ——— kermes mineral, 106  
 ——— lupulin, 268  
 ——— manna, 373  
 ——— nitrated, 336  
 ——— opoponax, 304  
 ——— purgative, 271  
 ——— sal ammoniac, 96  
 ——— scammony, 366  
 ——— compound, 366  
 ——— seneka, 372  
 ——— squill, 370  
 ——— sulphate soda, 384  
 ——— tartar emetic, 108  
 Enemata, 55  
 Epispastics, 58  
 Ergot, 196  
 ——— clyster, 197  
 ——— decoction, 196  
 ——— extract, 197  
 ——— infusion, 196  
 ——— injection, 197  
 ——— mixture, 196  
 ——— extract, 197  
 ——— oil, 197  
 ——— pills, compound, 197  
 ——— extract, 197  
 ——— powder, compound, 196  
 ——— syrup, 196  
 ——— tincture, 196  
 ——— wine, 196  
 Errhine, alum, 88  
 ——— cuphorbium, 199  
 Errhines, 60  
 Escharotics, 60  
 Essence of angelica, 103  
 ——— ginger, 416  
 ——— lavender, compound, 265  
 ——— lemon, 265  
 ——— peppermint, 277  
 ——— roses, 352  
 ——— sarsaparilla, 368  
 ——— compound, 369  
 ——— soap, 361  
 ——— camphorated, 361  
 ——— vanilla, 407  
 ——— Ward's for headache, 140  
 Essential oils, 456  
 Ether, acetic, 79  
 ——— mixture, 79  
 ——— spirit, 79  
 ——— cupreous, 186  
 ——— hydrocyanic, 80  
 ——— muriatic, 80  
 ——— mixture, 80  
 ——— spirit of, 80  
 ——— nitrous, 79  
 ——— mixture, 80  
 ——— sweet spirit of, 79  
 ——— mixture of, 80  
 ——— phosphorated, 308

- Ether, sulphuric, 80  
     — ethereal oil, 80  
     — Hoffmann's anodyne, 80  
     — lotion, 80  
     — mixture with camphor, 81  
     —                      turpentine, 81  
     — rectified, 80  
     — spirit, 80  
     — syrup, 81  
     — terebinthinated, 81  
 Ethereal oil, 80  
 Euphorbium, 199  
     — oil, 199  
     — plaster, 199  
     — sternutatory, 199  
 Examination of excretions, 47  
 Exercise in convalescence, 85  
 Expectorants, 60  
 Extracts, 448  
 Extract of aconite, 77  
     — alcoholic, 77  
     — ammoniated, 78  
     — American centaury, 356  
     — hellebore, 409  
     — anemone, 142  
     — arnica, 113  
     — asparagus roots, 116  
     —        shoots, 116  
     — belladonna, 127  
     —        alcoholic, 127  
     — bistort, 319  
     — bittersweet, 193  
     — black hellebore, 230  
     —        alcoholic, 230  
     — broom, 371  
     — buchu, 192  
     —        fluid, 192  
     — buckbean, 278  
     — butternut, 257  
     — cabbage tree bark, 222  
     — Canada fleabane, 197  
     — cantharides, 142  
     —        ethereal, 143  
     — cardamom, 148  
     — carrot root, 148  
     — cascarrilla, 150  
     — celandine, 157  
     — centaury, 154  
     — cevadilla, 355  
     — chamomile, 104  
     — colchicum bulb, 170  
     —        acetic, 170  
     — colocynth, 172  
     —        compound, 172  
     — columbo, 174  
     — contrayerva, 176  
     — cubebs, 184  
     —        alcoholic ethereal, 184  
     — dandelion, 398  
     —        fluid, 398  
     — elder berries, 359  
     — elecampane, 250  
     — ergot, 197  
     — foxglove, 190  
     — galls, 218  
     — gentian, 220  
     — ginger, ethereal, 416  
     — guaiacum wood, 227  
     — hardhack, 387  
     — hemlock, 175  
     —        alcoholic, 175  
     — hemp, 141  
     — henbane, alcoholic, 248  
     —        aqueous, 248  
     — hops, 232  
     — horehound, 274  
     — Indian hemp, 109  
     — Extract of ipecacuanha, 253  
     —        jalap, 256  
     —        alkaline, 256  
     — juniper, 257  
     — lettuce, 262  
     —        watery, 263  
     — liquorice, 223  
     — lobelia, acetic, 268  
     — logwood, 225  
     — male fern, 214  
     — marygold, 137  
     — may apple, 318  
     — mezereon, 279  
     — myrrh, 286  
     — nux vomica, 288  
     — oak bark, 342  
     — opium, acetous, 295  
     —        alcoholic, 295  
     —        aqueo-alcoholic, 295  
     —        aqueous, 295  
     —        by fermentation, 296  
     —        denarcotized, 296  
     —        roasted, 296  
     —        vinous, 295  
     — pareira brava, 307  
     — paullinia, alcoholic, 307  
     — pellitory, 341  
     — Peruvian bark, 162  
     —        vinous, 162  
     — pink-root, compound, 386  
     —        fluid, 386  
     — pipsissewa, 157  
     — poison oak, 402  
     — pomegranate root, 225  
     — poppy heads, 306  
     — quassia, 341  
     — rhatany, 259  
     — rhubarb, 350  
     —        fluid, 350  
     — rue, 355  
     — sarsaparilla, 363  
     —        fluid, 363  
     — scammony, 366  
     — seneka, with squill, 372  
     — senna, alcoholic, 373  
     —        fluid, 375  
     — squill, 370  
     — stramonium leaves, 388  
     —        seeds, 388  
     — succory, 160  
     — tansy, 397  
     — tobacco, 396  
     — tormentil, 401  
     — uva ursi, 404  
     — valerian, 406  
     —        fluid, 406  
     — vanilla, fluid, 407  
     — wood sorrel, 67  
     — wormwood, 65  
 Eyebright, 199  
 False sarsaparilla, 110  
 Fats, 460  
 Fecula of hemlock, 175  
 Fennel, 215  
     — infusion, 215  
     — oil, 215  
     — ointment, 215  
     — powder, compound, 215  
     — water, 215  
 Fern, male, 214  
     — bolus, 214  
     — electuary, 214  
     — extract, ethereal, 214  
     —        pills, 214  
     — jelly, 214  
     — mixture, 214



Fern, male, oil, 214  
     \_\_\_\_\_ pills, 214  
     \_\_\_\_\_ powder, 214  
     \_\_\_\_\_ tincture, 214  
 Ferrocyanate of quinine, 343  
     \_\_\_\_\_ zinc, 412  
 Ferrocyanuret of iron, 205  
 Figs, 213  
     \_\_\_\_\_ coffee, 214  
     \_\_\_\_\_ decoction, 213  
     \_\_\_\_\_ compound, 213  
     \_\_\_\_\_ gargle, 213  
     \_\_\_\_\_ paste, 214  
 Figwort, 371  
     \_\_\_\_\_ oil, 371  
     \_\_\_\_\_ ointment, 371  
 Filter, Boullay's, 452  
 Fixture, 101, 292  
 Fixed oils, 466  
 Flaxseed, 267  
     \_\_\_\_\_ cataplasm, 267  
     \_\_\_\_\_ clyster of oil, 267  
     \_\_\_\_\_ infusion, 267  
     \_\_\_\_\_ liniment of oil, 267  
     \_\_\_\_\_ meal, cataplasm, 267  
     \_\_\_\_\_ compound, 257  
     \_\_\_\_\_ mixture, 267  
 Fleabane, 197  
     \_\_\_\_\_ Canada, 197  
     \_\_\_\_\_ infusion, 197  
     \_\_\_\_\_ extract, 197  
     \_\_\_\_\_ infusion, 197  
 Flies, Spanish, 141  
 Florentine orris, 255  
 Flour, boiled, 418  
     \_\_\_\_\_ buchu, 192  
 Fluid extract of pinkroot, 386  
     \_\_\_\_\_ rhubarb, 350  
     \_\_\_\_\_ sarsaparilla, 363  
     \_\_\_\_\_ senna, 375  
     \_\_\_\_\_ spigelia, compound, 386  
     \_\_\_\_\_ valerian, 406  
     \_\_\_\_\_ vanilla, 407  
 Flummery of oatmeal, 123  
 Fomentations, 468  
 Fomentation, arnica, 113  
     \_\_\_\_\_ with rue, 113  
     \_\_\_\_\_ aromatic, 353  
     \_\_\_\_\_ carbonate of potassa, 332  
     \_\_\_\_\_ common salt, 378  
     \_\_\_\_\_ mustard, 377  
     \_\_\_\_\_ nitric acid, 74  
     \_\_\_\_\_ opium, 299  
     \_\_\_\_\_ phosphoric acid, 75  
     \_\_\_\_\_ sal ammoniac, 95  
     \_\_\_\_\_ sulphate of zinc, 414  
     \_\_\_\_\_ wine of opium, 301  
 Fowl, with rice, 419  
 Fowler's solution, 330  
 Foxglove, 190  
     \_\_\_\_\_ bolus, 190  
     \_\_\_\_\_ extract, 190  
     \_\_\_\_\_ infusion, 190  
     \_\_\_\_\_ mixture, expectorant, 191  
     \_\_\_\_\_ with acetate of lead, 191  
     \_\_\_\_\_ \_\_\_\_\_ potassa, 191  
     \_\_\_\_\_ \_\_\_\_\_ tartaric acid, 191  
     \_\_\_\_\_ ointment, 191  
     \_\_\_\_\_ pills, 190  
     \_\_\_\_\_ plaster, 191  
     \_\_\_\_\_ powder, 190  
     \_\_\_\_\_ syrup, 192  
     \_\_\_\_\_ tincture, 191  
     \_\_\_\_\_ ethereal, 191  
     \_\_\_\_\_ mixture, 191  
     \_\_\_\_\_ vinegar, 191  
 Frictions, 469

Frost-weed, 229  
 Frumenty, 420  
 Fuligokali, 216  
     \_\_\_\_\_ ointment, 216  
     \_\_\_\_\_ sulphuretted, 216  
     \_\_\_\_\_ pills, 216  
 Fumigations, 472  
 Fumigation with belladonna, 127  
 Furniture of sick room, 48  
 Galbanum, 217  
     \_\_\_\_\_ mixture, 217  
     \_\_\_\_\_ pills, compound, 217  
     \_\_\_\_\_ plaster, 217  
     \_\_\_\_\_ compound, 217  
     \_\_\_\_\_ purified, 217  
     \_\_\_\_\_ tincture, 217  
     \_\_\_\_\_ compound, 217  
 Gallie acid, 71  
     \_\_\_\_\_ injection, 71  
     \_\_\_\_\_ pills, 71  
 Galls, 218  
     \_\_\_\_\_ extract, 218  
     \_\_\_\_\_ ointment, 218  
     \_\_\_\_\_ gargle, 218  
     \_\_\_\_\_ infusion, 218  
     \_\_\_\_\_ compound, 218  
     \_\_\_\_\_ lotion, 218  
     \_\_\_\_\_ ointment, 219  
     \_\_\_\_\_ compound, 219  
     \_\_\_\_\_ powder, compound, 218  
     \_\_\_\_\_ syrup, 218  
     \_\_\_\_\_ tincture, 218  
 Gamboge, 219  
     \_\_\_\_\_ pills, compound, 219  
     \_\_\_\_\_ powder, compound, 219  
     \_\_\_\_\_ mixture, 219  
     \_\_\_\_\_ with elatine, 219  
     \_\_\_\_\_ solution, alkaline, 219  
     \_\_\_\_\_ tincture, alkaline, 219  
     \_\_\_\_\_ ammoniacal, 220  
 Gargle, acetate of ammonia, 92  
     \_\_\_\_\_ lead, 315  
     \_\_\_\_\_ alum, 88, 89  
     \_\_\_\_\_ ammoniated copper, 187  
     \_\_\_\_\_ borax, 380  
     \_\_\_\_\_ carbonate of soda, 383  
     \_\_\_\_\_ cayenne pepper, 145  
     \_\_\_\_\_ chloride of soda, 383  
     \_\_\_\_\_ chlorine, 158  
     \_\_\_\_\_ cinnamon, tincture, 168  
     \_\_\_\_\_ contrayerva, 117  
     \_\_\_\_\_ cyanuret of mercury, 242  
     \_\_\_\_\_ elder flowers, 359  
     \_\_\_\_\_ figs, 213  
     \_\_\_\_\_ galls, 218  
     \_\_\_\_\_ iodine, 252  
     \_\_\_\_\_ mercurial, 233  
     \_\_\_\_\_ muriatic acid, 74  
     \_\_\_\_\_ mustard, 377  
     \_\_\_\_\_ myrrh, 287  
     \_\_\_\_\_ nitrate of potassa, 336  
     \_\_\_\_\_ oak bark, 342  
     \_\_\_\_\_ orpiment, 114  
     \_\_\_\_\_ Peruvian bark, 165  
     \_\_\_\_\_ pomegranate rind, 225  
     \_\_\_\_\_ sage, 359  
     \_\_\_\_\_ scurvy grass, 169  
     \_\_\_\_\_ subacetate of lead, 314  
     \_\_\_\_\_ sulphate of copper, 188  
     \_\_\_\_\_ quinine, 347  
     \_\_\_\_\_ zinc, 414  
     \_\_\_\_\_ tannic acid, 76  
     \_\_\_\_\_ tormentil, 402  
     \_\_\_\_\_ vinegar, 67  
 Garlic, 81  
     \_\_\_\_\_ cataplasm, 81

- Garlic, lotion, capillary, 81  
     syrup, 81  
 Gelatine and Peruvian bark, 165  
 Gentian, 220  
     extract, 220  
     syrup, 221  
     infusion, 221  
     compound, 221  
     with rhubarb, 221  
     mixture, 221  
     pills, compound, 220  
     with ammonia, 220  
     powder, compound, 220  
     syrup, 221  
     tincture, 221  
     acidulated, 221  
     alkaline, 221  
     ammoniacal, 221  
     compound, 221  
     mixture, 221  
     with sulphuric acid, 221  
     wine, 221  
 Gentianin, 222  
     pills, 222  
     syrup, 222  
     tincture, 222  
 German chamomile, 276  
 Ginger, 415  
     beer, 415, 420  
     essence, 416  
     extract, ethereal, 416  
     syrup, 416  
     tincture, 416  
     lozenges, 415  
     oil, 416  
     spice plaster, 416  
     syrup, 415  
 Glass, soluble, 337  
 Gloucester jelly, 417  
 Glycerin, 223  
     ointment, 223  
 Godfrey's cordial, 302  
 Gold, 120  
     ammoniated, 123  
     pills, 123  
     chloride, 120  
     bolus, 121  
     caustic, 121  
     collyrium, 121  
     ointment, 121  
     pills, 121  
     powder, 120  
     tincture, 121  
     with sodium, 121  
     lozenges, 121  
     ointment, 122  
     pills, 121  
     powder, 121  
     solution, 121  
     syrup, 121  
     compound, 122  
     cyanide, 122  
     lozenges, 122  
     pills, 122  
     powder, 122  
     solution, 122  
     iodide, 122  
     ointment, 120  
     oxide, 122  
     pills, 123  
     powder, 122  
     powder, 120  
     with iron, 120  
     purple of Cassius, 123  
     syrup, 120  
 Golden sulphuret of antimony, 106  
 Goldthread, 179  
     infusion, 179  
     tincture, 179  
 Gondret's ointment, 93  
 Goulard's balsam, 315  
 Granulation, 447  
 Granules of digitalin, 192  
 Gravity, specific, 20  
 Grease balls, 361  
 Griffith's mixture, 202  
 Griffith's pills, 84  
 Groat gruel, 123  
 Gruel, oatmeal, 123  
 Guaiacum, 226  
     decoction, 226  
     compound, 226  
     extract, 226  
     mixture, 227  
     with bittersweet, 227  
     oil, 227  
     compound, 227  
     pills with aloes, 227  
     antimony, 227  
     sulphur, 227  
     turpentine, 227  
     powder, compound, 227  
     tincture, 227  
     ammoniated, 228  
     and camphor, 228  
     copaiba, 228  
     mixture, odontalgic, 228  
     with henbane, 228  
 Gum Arabic, 66  
     lozenges of, 66, 67  
     mixture of, 66, 67  
     mucilage of, 66  
     paste of, 66  
     syrup of, 66  
     compound, 66  
     tincture of, 67  
     plaster, 98  
     tragacanth, 402  
 Hair dye, 111  
 Hairy horehound, 124  
     decoction, 124  
 Hardhack, 386  
     decoction, 387  
     extract, 387  
 Hartshorn, 180  
     burnt, 180  
     dentifrice, 180  
     jelly, 180  
     compound, 180  
 Hedge hyssop, 226  
     powder, compound, 226  
     wine, 226  
 Hellebore, American, 409  
     black, 229  
     white, 408  
 Hemlock, 175  
     cataplasm, 176  
     collutory, 175  
     extract, 175  
     alcoholic, 175  
     fecula, 175  
     infusion, 175  
     mixture, 176  
     oil, 176  
     ointment, 175  
     pills with calomel, 175  
     dandelion, 175  
     ipeacacuanha, 175  
     pitch, 312  
     plaster, 176  
     powder, 175  
     compound, 176  
     suppository, 176

Hemlock, tincture, 175  
 ————— ethereal, 175

Hemp, 141

— emulsion, 141  
 — extract, 141  
 — resin, 141  
 — tincture, 141  
 — Indian, 109

Henbane, 248

— extract, alcoholic, 248  
 ————— aqueous, 248  
 — infusion, 248  
 ————— compound, 248  
 — liniment, 249  
 — mixture, 249  
 ————— with antimony, 249  
 ————— squill, 249  
 — ointment, 249  
 ————— compound, 249  
 — pills, compound, 248  
 ————— and ipecacuanha, 248  
 ————— opium, 248  
 — powder, compound, 248  
 — tincture, 249  
 ————— ethereal, 249

Hive syrup, 368

Hoffmann's anodyne, 80

Holly, sea, 197

Honeys, 451

Honey, borax, 380  
 — clarified, 276  
 — ceromel, 276  
 — hydromel, 276  
 — mixture, expectorant, 276  
 — oxymel, 276  
 — pectoral, 276  
 — prepared, 276  
 — roses, 353  
 — violets, 409  
 — water, 276

Hooper's pills, 83

Hops, 232

— cataplasm, 232  
 — extract, 232  
 — infusion, 232  
 — mixture, 232  
 — ointment, 232  
 — tincture, 232  
 ————— alkaline, 232

Horehound, 274

— candy, 275  
 — decoction, compound, 274  
 — extract, 274  
 — hairy, 124  
 — mixture, pectoral, 274  
 — syrup, 274

Horse balm, 172

— decoction, 172  
 — oil, 172  
 — tincture, 172  
 — chestnut, 247  
 ————— decoction, 247  
 ————— compound, 247  
 — extract, 247  
 — powder, compound, 247

Horsemint, 279

— liniment, 279  
 — oil, 279

Horseradish, 112

— cataplasm, compound, 112  
 — infusion, 112  
 — mixture, 112  
 — spirit, compound, 112

Hot bath, 464

Hundred-leaved rose, 352

Hungary water, 354

Hydrargyro-iodide of potassium, 325

Hydriodate of ammonia, 94

Hydriodic acid, 72

Hydrocyanic acid, 71

— extemporaneous, 71  
 — injection, 72  
 — julep, 72  
 — lotion, 72  
 — mixture, 72  
 — syrup, 72  
 — ether, 80

Hydromel, 276

— pectoral, 276

Hydrometers, 20

Hydrometrical equivalents, 26

Hydrosulphuric acid, 72

— artificial sulphuretted water, 73  
 — bath, hydrosulphuretted, 72  
 — lotion, hydrosulphuretted, 73  
 — powder against salivation, 72

Hyposulphited sulphuret of potassium, 326

Iceland moss, 156

— cetrarinc, 156  
 ————— powder, 156  
 — chocolate, 156  
 — decoction, 156  
 — jelly, 156  
 — mixture, 156

Imperial, 339

— measure, 16

Incompatibles, table of, 422

Indelible ink, 111

Indian hemp, 109

— decoction, 109  
 — extract, 109  
 — physic, 223  
 — sarsaparilla, 230  
 ————— decoction, 231  
 ————— infusion, 230  
 ————— mixture, 230  
 ————— syrup, 230

— turnip, 115

Indigo, 250

— electuary, 250  
 — pills, 250  
 — powder, 250  
 — sulphate, 250  
 — wild, 124  
 ————— decoction, 124  
 ————— ointment, 124

Infusions, 451

Infusion, American centaury, 356

— columbo, 215  
 — senna, 151  
 — ammoniated copper, 187  
 — angustura, 103  
 — arnica, 113  
 ————— compound, 113  
 — benne, 377  
 — bistort, 130  
 — black purslane, 198  
 — blessed thistle, 154  
 — bloodroot, 360  
 — boneset, 198  
 ————— compound, 198  
 — broom, 371  
 — buchu, 192  
 ————— compound, 192  
 — buckbean, 278  
 — burdock, 110  
 — calamus, 133  
 — camphor, 139  
 — Canada fleabane, 197  
 — cantharides, 142  
 — caraway, 148  
 — carrot seeds, 148



- Infusion, cascarilla, 150  
     — alkaline, 150  
     — catechu, 153  
     — compound, 153  
     — catnep, 152  
     — Cayenne pepper, 145  
     — chamomile, 104  
     — cherry laurel, 264  
     — chiretta, 158  
     — cinnamon, 167  
     — cloves, 149  
     — columbo, 174  
     — with ginger, 174  
     — rhubarb, 174  
     — dandelion, 398  
     — dittany, 185  
     — elm bark, 403  
     — ergot, 196  
     — fennel, 215  
     — flaxseed, 267  
     — fleabane, 197  
     — foxglove, 191  
     — galls, 218  
     — compound, 218  
     — gentian, 220  
     — compound, 220  
     — with rhubarb, 221  
     — goldthread, 179  
     — hemlock, 175  
     — henbane, 248  
     — compound, 248  
     — hops, 232  
     — horseradish, 112  
     — compound, 112  
     — Indian sarsaparilla, 230  
     — iron, bitter, 209  
     — juniper, 257  
     — compound, 257  
     — kino, 259  
     — linden flowers, 400  
     — compound, 400  
     — lobelia, 268  
     — logwood, 228  
     — maidenhair, 79  
     — malt, 272  
     — marygold, 137  
     — matico, 275  
     — compound, 275  
     — mayweed, 181  
     — mint, 278  
     — compound, 278  
     — mudar, 138  
     — orange peel, 119  
     — compound, 119  
     — pareira brava, 306  
     — parsley root, 308  
     — pennyroyal, 229  
     — persimmon bark, 193  
     — Peruvian bark, 163  
     — compound, 163  
     — with iron, 164  
     — lime water, 163  
     — magnesia, 163  
     — serpentaria, 163  
     — valerian, 163  
     — pinkroot, 386  
     — compound, 386  
     — pleurisy root, 115  
     — quassia, 341  
     — compound, 341  
     — red poppy, 352  
     — rhatany, 259  
     — rhubarb, 349  
     — alkaline, 350  
     — roses, acid, 353  
     — safflower, 148  
     — saffron, 183
- Infusion, sage, 358  
     — compound, 359  
     — sarsaparilla, 362  
     — alkaline, 362  
     — sassafras bark, 365  
     — compound, 365  
     — savine, 357  
     — seneka, 372  
     — compound, 372  
     — senna, 374  
     — compound, 374  
     — with buckthorn, 375  
     — coffee, 374  
     — lemon juice, 375  
     — rhubarb, 375  
     — tamarinds, 374  
     — tincture of senna, 375  
     — simaruba, 377  
     — compound, 377  
     — skunk cabbage, 193  
     — slippery elm, 403  
     — southern wood, 114  
     — succory, 160  
     — tamarind, 397  
     — tansy, 397  
     — tobacco, 396  
     — tulip tree bark, 267  
     — valerian, 405  
     — compound, 405  
     — Virginia snakeroot, 376  
     — compound, 376  
     — with ether, 377  
     — yellow ladies' bedstraw, 218  
     — wild cherry bark, 340  
     — ginger, 115  
     — wormwood, 65
- Inhalations, 462  
 Inhalation, balsam of tolu, 401  
 Injection, acetate of zinc, 413  
     — alum, 89  
     — ammonia, 91  
     — carbonate of soda, 382  
     — catechu, 153  
     — caustic potassa, 329  
     — chloride of zinc, 411  
     — chlorinated lime, compound, 134  
     — chlorine, 158  
     — chloroplatinate of sodium, 313  
     — copaiba, 178  
     — corrosive sublimate, 238  
     — cubebs, 184  
     — detursive, 85  
     — ergot, 197  
     — gallic acid, 71  
     — hydrocyanic acid, 72  
     — iodide of iron, 208  
     — potassium, 322  
     — ioduretted, 324  
     — kino, 259  
     — morphia, 280  
     — opium, 299  
     — pyroligneous acid, 69  
     — rhatany, 260  
     — sedative, 306  
     — soot, 216  
     — stimulating, 287  
     — subacetate of lead, 314  
     — and lime water, 315  
     — sulphate of copper, 188  
     — iron, 211  
     — zinc, 414  
     — sulphuret of potassium, 327  
     — tannic acid, 76
- Ink, blue, 206  
     — indelible, 111  
     — without mordant, 111  
     — writing, 206

- Inspissated juices, 448  
 Introduction, 9  
 Iodide of arsenic, 113  
     — and mercury, 114  
     — barium, 125  
     — gold, 122  
     — iron, 206  
     — lead, 316  
     — mercury, 242  
     — red, 243  
     — potassium, 321  
     — silver, 110  
     — starch, 102  
     — sulphur, 395  
     — zinc, 412  
 Iodine, 251  
     — bath, 251  
     — cataplasm, 252  
     — clyster, 252  
     — gargle, 252  
     — liniment, 252  
     — lotion, 251  
     — mixture, 251  
     — with iodide of potassium, 251  
     — ointment, 252  
     — compound, 252  
     — with mercury, 252  
     — oil of tobacco, 252  
     — pills, 251  
     — plaster, 252  
     — tincture, 251  
     — compound, 251  
     — ethereal, 251  
 Ipecacuanha, 252  
     — bolus, 253  
     — confection, 254  
     — decoction, 254  
     — elixir, 255  
     — extract, 253  
     — lozenges, 254  
     — mixture, 254  
     — pills, compound, 254  
     — with centaury, 254  
     — foxglove, 254  
     — opium, 253  
     — powder with antimony, 253  
     — calomel, 253  
     — carb. soda, 253  
     — muriate ammonia, 253  
     — myrrh, 253  
     — nitre, 253  
     — opium, 252  
     — rhubarb, 253  
     — tartar emetic, 253  
     — tragacanth, 253  
     — syrup, 254  
     — compound, 254  
     — wild, 198  
     — wine, 255  
     — alkaline, 255  
     — compound, 255  
     — with tartar emetic, 255  
 Iris, Florentine, 255  
 Iron, 199  
     — acetate, 200  
     — and alum, 200  
     — tincture, alcoholic, 200  
     — ethereal, 200  
     — ammoniated, 201  
     — bolus, 201  
     — mixture, 201  
     — pills, 201  
     — powder, compound, 201  
     — tincture, 201  
     — arseniate, 201  
     — ointment, 201  
     — pills, 201  
     — Iron, bromide, 201  
     — ointment, 202  
     — pills, 201  
     — carbonate, 202  
     — artificial chalybeate water, 203  
     — pills, 202  
     — plaster, 203  
     — saccharine, 202  
     — subcarbonate, 202  
     — mixture, 202  
     — pills, comp., 203  
     — powder, 202  
     — wine, 203  
     — carburet, 203  
     — electuary, 203  
     — mixture, 204  
     — ointment, 204  
     — pills, 203  
     — plaster, 204  
     — powder, 203  
     — prepared, 203  
     — chloride, 204  
     — and acetate of lead, 204  
     — mixture, 204  
     — syrup, 204  
     — tincture, 204  
     — ethereal, 204  
     — citrate, 205  
     — ammonio, 205  
     — and quinine, 205  
     — liquid, 205  
     — syrup, 205  
     — tincture, 205  
     — wine, 205  
     — aromatic, 205  
     — ferrocyanuret, blue ink, 206  
     — mixture, 206  
     — pills, 206  
     — powder, 205  
     — compound, 205  
     — Prussian blue, 205  
     — filings, 199  
     — gallate, 206  
     — writing ink, 206  
     — iodide, 206  
     — bath, 208  
     — injection, 208  
     — lozenges, 206  
     — mixture, 207  
     — pills, 207  
     — solution, 207  
     — officinal, 207  
     — syrup, 207  
     — and chloride of iron, 208  
     — tincture, 207  
     — wine, 207  
     — lactate, 208  
     — lozenges, 208  
     — pills, 208  
     — syrup, 208  
     — malate, 208  
     — bitter infusion, 209  
     — mixture, 209  
     — solution, 208  
     — tincture, 209  
     — metallic, prepared, 199  
     — bolus, 200  
     — mixture, 200  
     — pills, 200  
     — powder, 200  
     — compound, 200  
     — nitrate, 209  
     — solution, 209  
     — oxide, black, 209  
     — electuary, 210  
     — pills, 210  
     — powder, 209

- Iron, oxide, hydrated, 209  
     — red, 210  
     — pills, 210  
     — plaster, 210  
     — persequinurate, 209  
     — phosphate, 210  
     — proto-iodide, 207  
     — pills, 207  
     — syrup, 207  
     — tincture, 207  
     — sulphate, 210  
         — dried, 211  
         — injection, 211  
         — mixture, 212  
         — compound, 211  
         — pills, 211  
         — Bland's, 211  
         — compound, 211  
         — with rhubarb, 211  
         — powder, 211  
         — solution, 211  
         — syrup, 212  
     — sulphuret, 212  
     — tannate, 213  
     — tartrate, and potassa, 212  
         — powder, and columbo 212,  
         — effervescent, 212  
         — solution, 212  
         — tincture, compound, 213  
         — wine, 212  
         — compound, 212  
         — ammonio, 213  
         — solution, 213  
     — valerianate, 213  
 Isinglass, 249  
     — blanc mange, 420  
     — court plaster, 249  
     — diamond cement, 250  
 Issues, 470  
 Jalap, 255  
     — electuary, 256  
     — emulsion, 256  
     — extract, 256  
     — alkaline, 256  
     — mixture, 257  
     — pills, compound, 256  
         — with calomel, 256  
     — powder, compound, 256  
         — with calomel, 255  
         — cremor tartar, 256  
         — ipecacuanha, 256  
         — scammony, 256  
     — resin, 256  
     — soap, 257  
     — tincture, 257  
         — compound, 257  
         — mixture, 257  
 Jamaica dogwood, 311  
     — pepper, 309  
     — tincture, 311  
 James's powder, 109  
 Jelly almond, 417  
     — biscuit, 417  
     — bread, 417  
     — calves' foot, 418  
     — carrageen, 160  
     — chicken, 419  
     — Gloucester, 417  
     — hartshorn, 180  
         — compound, 180  
     — Iceland moss, 156  
     — male fern, 214  
     — orange leaves, 119  
     — pectoral, 372  
     — rice, 305  
     — starch, 102  
     — Jelly, tapioca, 397  
     — Julep, alum, 89  
         — hydrocyanic, 72  
     — Juniper, 257  
         — electuary, 258  
         — extract, 257  
         — infusion, 257  
         — compound, 257  
         — liniment, 258  
         — mixture of oil, 258  
         — spirit, compound, 258  
 Kermes mineral, 105  
 Kermesine powder, 106  
 Kinat of cinchonia, 166  
     — quinine, 344  
 Kino, 258  
     — electuary, 259  
     — infusion, 259  
     — injection, 259  
     — pills, compound, 259  
     — powder, compound, 258  
     — syrup, 259  
     — tincture, 259  
 Labarraque's solution, 383  
 Lac, 262  
     — bleached, 262  
     — cement, 262  
     — scaling wax, 262  
     — solution, aqueous, 262  
 Lactate of iron, 208  
     — quinine, 344  
 Lactic acid, 73  
     — lemonade, 73  
     — lozenges, 73  
 Lactucarium, 262  
     — mixture, 262  
     — pills, 262  
     — syrup, 262  
     — tincture, 262  
 Ladies' bed straw, yellow, 218  
     — infusion, 218  
     — wine, 218  
 Lady Webster's pills, 83  
 Lancaster black drop, 300  
 Larkspur, 189  
     — tincture, 189  
 Laudanum, 301  
     — Smith's, 302  
     — Swediaur's, 302  
     — Sydenham's, 301  
 Laurel, 263  
     — cherry, 264  
     — oil, 263  
     — ointment, 263  
 Lavender, 264  
     — essence, compound, 265  
     — ointment, 265  
     — powder, compound, 264  
     — spirit, 264  
         — compound, 265  
     — tincture, ethereal, 265  
     — water, 264  
 Lead, 313  
     — acetate, 313  
     — cataplasm, 315  
     — cerate, 314  
     — collyrium, 314  
     — gargle, 315  
     — Goulard's balsam, 315  
     — liniment, 314  
     — lotion, 315  
     — mixture, 315  
     — ointment, 314  
         — pile, 314  
     — paste, rubefacient, 314

Lead, acetate, pills, 313  
     — plaster, 314  
     — powder, 313  
     — carbonate, 316  
         — ointment, 316  
         — camphorated, 316  
     — plaster, 316  
     — powder, camphorated, 316  
     — chloride, 316  
         — lotion, 316  
         — ointment, 316  
     — iodide, 316  
         — ointment, 317  
         — pills, 317  
         — powder, 317  
     — litharge, 317  
         — cataplasm, 317  
         — cerate, 317  
         — ointment, 317  
             — Banyer's, 317  
             — compound, 317  
         — plaster, 317  
             — Baynton's, 317  
             — diapalma, 317  
             — Gaulthier's, 317  
     — red, 318  
         — plaster, Nuremberg, 318  
     — saccharate, 318  
         — nitro, 318  
         — solution, 318  
     — subacetate, 313  
         — cataplasm, 314  
         — cerate, 315  
         — collyrium, 314  
         — gargle, 314  
         — Garland's vegeto-mineral  
             water, 315  
     — injection, 314  
         — with lime, 315  
     — liniment, 315  
         — ointment, 315  
         — plaster, 315  
         — solution, 314  
 Leather wood, 193  
 Leeching, 477  
 Lemon, 265  
     — collutory of juice, 265  
     — Cologne water, 266  
     — essence, 265  
     — juice, artificial, 71  
     — lozenges of juice, 265  
         — oil, 265  
     — spirit, 266  
         — odoriferous, 266  
     — syrup, 266  
         — vinous of peel, 266  
     — water of peel, 266, 419  
         — unparallelled, 267  
 Lemonade, 265  
     — barberries, 129  
     — compound, 265  
     — dry, 71  
     — lactic acid, 73  
     — phosphoric acid, 75  
     — sulphuric acid, 76  
     — tartaric acid, 77  
     — with sulphate of soda, 384  
 Lettuce, wild, 262  
     — extract, 262  
         — lactucarium, 262  
         — lozenges, 263  
         — mixture, 262  
         — pills, 262  
         — syrup, 262  
         — tincture, 262  
     — thridace, 262  
     — syrup, 262

Lettuce, extract, watery, 263  
     — mixture, 263  
     — powder, 263  
     — mixture, with dandelion, 262  
     — syrup, 263  
     — tincture, 263  
     — water, 263  
         — mixture, 263  
 Lime, 135  
     — carbonate, 136  
         — dentifrice, 136  
         — electuary, 136  
         — lozenges, 136  
         — mixture, 137  
             — compound, 137  
         — powder, aromatic, 136  
         — compound, 136  
             — with opium, 136  
         — precipitated, 136  
         — prepared chalk, 136  
             — oyster shells, 136  
     — chlorinated, 134  
         — collutory, 134  
         — dentifrice, 134  
         — injection, 134  
         — liniment, 134  
         — lozenges, 134  
         — ointment, 134  
         — preservative liquid, 134  
     — liniment, with sulphur, 135  
         — ointment, 136  
         — phosphate, 137  
             — electuary, dentifrice, 137  
             — hartshorn, burnt, 137  
             — powder, dentifrice, 137  
     — water, 135  
         — compound, 135  
         — and carbonate of potassa, 135  
         — milk, 135  
         — liniment, 135  
             — with alcohol, 135  
             — oil, 135  
             — opium, 135  
             — sulphur, 135  
             — mixture, antacid, 136  
 Linctus, gum Arabic, 67  
     — green, 100  
     — opiate, 303  
     — opium, 299  
     — sulphur, 393  
     — white, 101  
 Linden, 400  
     — infusion, 400  
     — compound, 400  
 Liniments, 469  
 Liniment, acetate of mercury, 236  
     — alum, 89  
     — amber, oil of, 392  
     — ammonia, 90  
     — camphorated, 93  
     — compound, 90  
     — sulphuretted, 91  
     — terebinthinate, 91  
     — belladonna, 128  
     — cajeput oil, 289  
     — camphor, 140  
         — compound, 140  
         — ethereal, 140  
         — turpentine, 141  
         — with vinegar, 140  
     — cantharides, 143  
         — aromatic, 144  
         — soap, 143  
         — stimulating, 144  
         — with camphor, 143  
     — carbonate of potassa, 332  
     — chlorinated lime, 134



- Liniment, chlorinc, 159  
 — chloroform, 159  
 — cod liver oil, 172  
 — colchicum and camphor, 172  
 — cosmetic, 101  
 — croton oil, 294  
 — Dippel's oil, 289  
 — eggs, 305  
 — flaxseed oil, 267  
 — for chilblains, 285  
 — milk abscess, 314  
 — sore breasts, 136  
 — garlic, 81  
 — henbane, 249  
 — horsemint, 279  
 — iodide of potassium, 323  
 — iodine, 252  
 — juniper, 258  
 — laudanum and lime water, 303  
 — lime and sulphur, 136  
 — water and alcohol, 136  
 — oil, 136  
 — opium, 136  
 — mercurial, compound, 235  
 — opiated, 235  
 — mercury and chalk, 233  
 — muriatic acid, 74  
 — mustard, 378  
 — nitrate of mercury, 244  
 — nitric acid, 74  
 — opiate, 303  
 — opium, 298  
 — with oil of chamomile, 298  
 — pellitory, 340  
 — phosphorated, 309  
 — sal ammoniac, 95  
 — spermaceti, 155  
 — strychnine, 390  
 — subacetate of lead, 315  
 — succinate of ammonia, 97  
 — sulphate of quinine, 346  
 — sulphur and soap, 394  
 — sulphuret of calcium, 135  
 — carbon, 395  
 — sodium, 379  
 — sulphuric acid, 76  
 — tannate of lead, 318  
 — tartar emetic, ammoniacal, 108  
 — turpentine, 399  
 — acetic, 293  
 — oil, 293  
 — opiated, 293  
 — sulphuric, 293  
 — veratrine, 408  
 — verdigris, 186  
 — Wilkinson's, 95  
 Lip salve, 155  
 Liquorice root, 223  
 — extract, 223  
 — refined, 223  
 — lozenges, 224  
 — with opium, 224  
 — mixture, 224  
 — paste, 224  
 — syrup, 224  
 Lisbon diet drink, 363  
 Litharge, 317  
 Lithontriptics, 54  
 Liverwort, 231  
 Lobelia, 268  
 — extract, acetic, 268  
 — infusion, 268  
 — mixture, 268  
 — syrup, 268  
 — tincture, 268  
 — ethereal, 268  
 — vinegar, 268  
 Logwood, 228  
 — decoction, 228  
 — extract, 228  
 — electuary, 228  
 — mixture, 228  
 — infusion, 228  
 Long pepper, 310  
 — cataplasm, 310  
 Lotions, 469  
 Lotion, anti-rheumatic, 389  
 — Barlow's, 327  
 — Bateman's, 238  
 — capillary, 81  
 — for burns, 129  
 — chilblains, 292  
 — hiccough, 94  
 — toothache, 292  
 — Granville's, 90  
 — Goulard's, 100  
 — hydrosulphuretted, 73  
 — mammillary, 385  
 — mercurial, 237  
 — Saviard's, 329  
 — of acetate of lead, 315  
 — zinc, 413  
 — aconitine, 78  
 — almond, compound, 99  
 — alum, 89  
 — ammonia, 91  
 — borax, 380  
 — bromine, 130  
 — carbonate of potassa, 332  
 — soda, 382  
 — Cayenne pepper, 145  
 — cherry laurel water, 264  
 — chlorate of soda, 383  
 — chloride of lead, 316  
 — zinc, 411  
 — copper, 188  
 — corrosive sublimate, 237  
 — and camphor, 238  
 — copper, 238  
 — cosmetic, 237  
 — creasote, 182  
 — cyanuret of potassium, 320  
 — galls, 218  
 — hydrocyanic acid, 72  
 — iodide of potassium, compound, 324  
 — iodine, 251  
 — marygold, extract of, 137  
 — muriatic acid, 74  
 — mustard, 378  
 — nitrate of potassa, 336  
 — nitric acid, 74  
 — nux vomica, 289  
 — orpiment, 114  
 — oxide of zinc, 411  
 — Peruvian bark, 166  
 — sal ammoniac, 95  
 — sulphate of morphia, and borax, 283  
 — potassium, 327  
 — compound, 327  
 — soda, 385  
 — sodium, 379  
 — zinc, 414  
 — sulphuric ether, 80  
 — tartar emetic, 108  
 — and camphor, 108  
 — corrosive sublimate, 108  
 — tobacco, 396  
 — veratrin, 408  
 — verdigris, compound, 185  
 Lozenges, 462  
 — of anise, 103  
 — balsam of tolu, 400  
 — bicarbonate of soda, 381

- Lozenges of borax, 380  
 — catechu, 153  
 — Cayenne pepper, 145  
 — chalk, 136  
 — charcoal, 146  
 — chloride of gold and sodium, 121  
 — chlorinated lime, 134  
 — cinnamon, 167  
 — citric acid, 71  
 — croton oil, 294  
 — cubebs, 184  
 — — extract, 184  
 — emetine, 196  
 — ginger, 415  
 — gum, 66  
 — iodide of iron, 206  
 — — potassium, 321  
 — ipecacuanha, 254  
 — — and camphor, 254  
 — kermes mineral, 106  
 — lactate of iron, 208  
 — lactic acid, 73  
 — lactucarium, 263  
 — lemon juice, 265  
 — — oil, 265  
 — liquorice, 224  
 — — and opium, 224  
 — manna, 273  
 — marsh mallow, 86  
 — muriate of morphia, 282  
 — — and ipecacu-  
 — — anha, 282  
 — naphthaline, 258  
 — oxalate of potassa, 336  
 — oxalic acid, 75  
 — paullinia, 307  
 — pellitory, 340  
 — peppermint, 277  
 — rose, 352  
 — starch, 102  
 — tartaric acid, 77  
 — Tronchin's gum, 67  
 — vanilla, 407  
 — Wistar's, 224, 304  
 Lunar caustic, 111  
 Lupuline, 268  
 — emulsion, 268  
 — ointment, 269  
 — pills, 268  
 — powder, 268  
 — syrup, 268  
 — tincture, 268  
 Mace, 269  
 — balsam, neurine, 269  
 — drops, carminative, 269  
 — tincture, 269  
 Maceration, 452  
 Mackenzie's solution, 111  
 Madar, 138  
 Madder, 354  
 — decoction, 354  
 — powder, compound, 354  
 Magnesia, 269  
 — acetate, 270  
 — carbonate, 270  
 — — carminative, Dalby's, 270  
 — — Dewees', 270  
 — — mixture, 270  
 — — with camphor, 270  
 — — colchicum, 270  
 — — solution, 270  
 — citrate, 271  
 — — solution, 271  
 — — water, 271  
 — heavy, 269  
 — mixture, 269  
 Magnesia, mixture, and gentian, 270  
 — — rhubarb, 270  
 — — phosphate, 272  
 — — powder, with orange peel, 269  
 — — rhubarb, 269  
 — — sulphur, 269  
 — — sulphate, 271  
 — — Cheltenham salts, 271  
 — — clyster, 271  
 — — mixture, with coffee, 271  
 — — nitric acid, 272  
 — — Rochelle salt,  
 — — 271  
 — — sulphuric acid,  
 — — 271  
 — — tartar emetic,  
 — — 271  
 — — sulphuret, 272  
 — — syrup, 272  
 Magnolia, 272  
 — tincture, 272  
 Maidenhair, 79  
 — infusion, 79  
 — syrup, 79  
 — — compound, 79  
 Male fern, 214  
 — bolus, 214  
 — electuary, 214  
 — extract, ethereal, 214  
 — — pills, 214  
 — jelly, 214  
 — mixture, 214  
 — oil, 214  
 — — pills, 214  
 — powder, 214  
 — tincture of buds, 214  
 Mallow, common, 272  
 Malt, 272  
 — clyster, 272  
 — infusion, 272  
 Management of convalescence, 63  
 Manganese, 272  
 — carbonate, 272  
 — muriate, 272  
 — — pills, 272  
 — oxide, 273  
 — bolus, 273  
 — ointment, 273  
 — — compound, 273  
 — powder, 273  
 — sulphate, 273  
 Manna, 273  
 — emulsion, 273  
 — lozenges, 273  
 — mixture, 273  
 — syrup, 273  
 Mannite, 274  
 Marsh mallow, 86  
 — decoction, 86  
 — lozenges, 86  
 — ointment, 86  
 — paste, 86  
 — powder, 86  
 — syrup, 86  
 Marygold, 137  
 — extract, 137  
 — lotion, 137  
 — pills, 137  
 — infusion, 137  
 — ointment, 138  
 Masterwort, 231  
 Mastic, 275  
 — collutory, 275  
 — dentifrice, 275  
 — paste, anti-odontalgic, 275  
 — tincture, ethereal, 275  
 — varnish, crystal, 275

- Mastic, varnish, picture, 275  
 Matico, 275  
     — decoction, 275  
     — infusion, 275  
     — with senna, 275  
     — ointment, 276  
     — syrup, 275  
     — tincture, 275  
 May apple, 318  
     — extract, 318  
     — podophyllin, 318  
 Mayweed, 181  
     — cataplasm, 181  
     — infusion, 181  
 Meal, barley, 231  
     — flaxseed, compound, 267  
 Measures, 15  
     — approximative, 15  
     — drops, 17  
     — foreign, 19  
     — French, 19  
     — imperial, 15  
     — wine, 15  
 Medicated waters, 455  
 Mellites, 451  
 Mercury, 232  
     — acetate, 235  
     — liniment, 236  
     — pills, 236  
     — with opium, 236  
     — solution, 236  
     — ammoniated, 236  
     — ointment, 236  
     — and antimony, 232  
     — chalk, 233  
     — liniment, 233  
     — with ipecacuanha, 233  
     — gum, 233  
     — pills, with hemlock, 233  
     — magnesia, 234  
     — borate, 236  
     — bromide, 236  
     — bibromide, 236  
     — protobromide, 236  
     — solution, ethereal, 236  
     — calomel, 238  
     — cataplasm, 235  
     — cerate, 235  
     — compound, 235  
     — corrosive sublimate, 237  
     — cyanuret, 241  
     — gargle, 242  
     — ointment, 242  
     — pills, compound, 241  
     — solution, 241  
     — tincture, compound, 242  
     — gargle, 233  
     — iodide, 242  
     — ointment, 242  
     — pills, 242  
     — compound, 242  
     — powder, 242  
     — red, 243  
     — ointment, 243  
     — pills, 243  
     — tincture, 243  
     — ethereal, 243  
     — liniment, compound, 235  
     — opiated, 235  
     — lotion, 233  
     — mixture, 234  
     — mucilage, 232  
     — nitrate, 243  
     — liniment, 244  
     — ointment, 243  
     — with lead, 244  
     — pills, 243  
 Mercury, nitrate, protoxide, 243  
     — ointment, 234  
     — camphorated, 235  
     — compound, 235  
     — with belladonna, 235  
     — oxide, black, 244  
     — wash, 244  
     — ointment, 244  
     — pills, 244  
     — red, 244  
     — ointment, 244  
     — brown, 245  
     — with ciunabar, 245  
     — lead, 245  
     — sulphur, 245  
     — tin, 245  
     — zinc, 245  
     — pills, 244  
     — powder, 244  
     — phosphate, 245  
     — pills, 245  
     — pills, 234  
     — Abernethy's, 234  
     — and antimony, 233  
     — colocynth, 234  
     — jalap, 234  
     — quinine, 234  
     — compound, 234  
     — rhubarb, 234  
     — compound, 234  
     — plaster, 235  
     — with belladonna, 235  
     — powder, compound, 232  
     — purified, 232  
     — sulphate, 245  
     — ointment, 246  
     — powder, compound, 245  
     — yellow, 245  
     — sulphuret, black, 246  
     — pills, 246  
     — powder, 246  
     — red, 246  
     — cerate, 247  
     — ointment, 247  
     — pills, 246  
     — powder, 246  
     — fumigating, 247  
     — tartrate, 247  
     — and potassa, 247  
 Method of displacement, 452  
 Mezercron, 278  
     — decoction, 278  
     — compound, 279  
     — extract, 279  
     — oil, 279  
     — ointment, 279  
 Milk, 260  
     — anodyne, 99  
     — arrowroot, 274  
     — artificial, 99  
     — asses', 420  
     — goats', 261  
     — cement, parolic, 261  
     — chocolate, 420  
     — coffee, 420  
     — mixture, with suet, 261  
     — soda water, 261  
     — powder, 261  
     — roses, 99, 129  
     — sago, 358  
     — sugar of, 261  
     — draught, 261  
     — with gum Arabic, 261  
     — Iceland moss, 261  
     — syrup, 261  
     — vanilla, 407  
     — whey alum, 260

- Milk whey, aromatic, 261  
     — cremor tartar, 260  
     — mustard, 260  
     — simple, 260  
     — tamarind, 260  
     — vinegar, 260  
     — wine, 261  
 Mineral, Kermes, 105  
 Mint, 277  
 Mixture, acetate of ammonia, 92  
     — lead, 315  
     — morphia, 281  
     — potassa, 320  
     — acetic ether, 79  
     — aconite, 78  
     — American hellebore, 409  
     — ammonia, 91  
         — and ether, 91  
     — ammoniac, 97, 98  
         — and nitric acid, 98  
         — compound, 98  
     — ammoniated alcohol, 94  
         — iron, 201  
     — angustura, 103  
     — anisated ammoniated alcohol, 94  
     — aniseed, 104  
     — antacid, 136  
     — anthelmintic, 308  
     — anti-emetic, 153, 382  
     — anti-epileptic, 111  
     — anti-otitic, 299  
     — antimonial wine and ammoniac, 109  
         — bittersweet, 109  
         — laudanum, 109  
     — anodyne, Vicat's, 94  
     — arseniate of potassa, 330  
     — asparagus, diuretic, 116  
     — assafetida, 117  
         — and oxymel of squills, 117  
         — tolu, 117  
         — compound, 118  
     — avens, 223  
     — balsam of Peru, 285  
         — tolu, 401  
         — and almond emulsion, 401  
         — belladonna, 401  
         — copaiba, 401  
         — morphia, 401  
         — opium, 401  
     — belladonna, 128  
     — benzoic acid, 70  
     — bicarbonate of potassa, 334  
     — bichloride of platina, 313  
     — biniodide of potassium, 324  
     — bistort, 319  
     — bitartrate of potassa, 339  
     — bittersweet, 194  
     — black drop, 301  
         — hellebore, 230  
     — boracic acid, 70  
     — borax, 381  
     — borotartrate of potassa, 331  
         — and magnesia, 331  
     — brown, 224, 303  
     — buckbean, 278  
         — diuretic, 278  
     — butter of cocoa, 132  
     — cabbage tree bark, 222  
     — camphor, 139  
         — and chloroform, 140  
         — ether, 140  
         — water, 140  
     — carbonate of ammonia, 93  
         — and ginger, 93  
         — magnesia, 270  
     — Mixture, carbonate of magnesia and camphor, 270  
         — colchicum, 270  
         — potassa, 332  
         — soda and chamomile, 382  
         — copaiba, 382  
         — gentian, 382  
         — ipecacuanha, 382  
         — quassia, 382  
     — carburet of iron, 204  
     — carminative, 277  
     — carrageen, 160  
     — cascarilla, 150  
     — cassia pulp, 150  
     — castor oil and ether, 192  
     — catechu and logwood, 153  
     — caustic potassa, 329  
     — celandine, 157  
     — centaury, 154  
     — chalk, 137  
         — compound, 137  
     — chamomile, 104  
     — cherry laurel water, 264  
     — chloride of barium, 125  
         — calcium, 134  
         — iron, 204  
     — chlorine, 159  
     — citrate of potassa and Peruvian bark, 335  
     — cochineal and carbonate of potassa, 169  
         — common salt, 169  
     — cod liver oil, 290  
     — colchicum, 171  
         — and claterium, 171  
         — magnesia, 171  
         — sulphate of magnesia, 171  
         — tincture, 171  
         — with foxglove, 171  
         — vinegar, 172  
         — with squills, 172  
     — wine, 172  
     — colocynth, 173  
         — tincture, 173  
     — columbo, 174  
         — and cascarilla, 174  
         — salep, 174  
     — common salt and lemon juice, 379  
     — contrayerva, 177  
     — copaiba, 178  
     — corrosive sublimate, 237  
     — creasote, 181  
     — croton oil, 294  
     — cubebs, 184  
         — oil and copaiba, 185  
     — cyanuret of potassium, 320  
     — dandelion, 398  
     — Dippel's oil, 289  
     — diuretic, 308  
     — eggs, 305  
         — and brandy, 305  
         — wine, 305  
     — elaterium, 194  
     — elder, 359  
     — elecampene, 250  
     — emetine, 195  
     — ergot, 196  
         — extract, 197  
     — errhine, 103  
     — expectorant, 276  
     — ferrocyanide of quinine, 343  
         — zinc, 412  
     — flaxseed, 267  
     — foxglove and acetate potassa, 191  
         — tartaric acid, 191  
     — expectorant, 191  
         — tincture, 191  
     — galbanum, 217  
     — gamboge, 219  
         — and elatine, 219



- Mixture, gentian, 221  
     — and sulphuric acid, 221  
     — tincture, 221  
     — guaiacum, 227  
     — and bittersweet, 227  
     — camphor, 228  
     — copaiba, 228  
     — henbane, 228  
     — odontalgic, 228  
     — gum Arabic, 66  
     — Wendt's, 67  
     — hemlock and paregoric, 176  
     — henbane, 249  
     — and antimony, 249  
     — squill, 219  
     — hops, 232  
     — horseradish, 112  
     — hydrocyanic acid, 72  
     — hyponitrous ether, 80  
     — Iceland moss, 156  
     — Indian sarsaparilla, 230  
     — iodide of iron, 207  
     — and chloride, syrup of, 208  
     — potassium, 322  
     — and sarsaparilla, 322  
     — iodine and iodide of potassium, 251  
     — ipecacuanha, 254  
     — iron, aromatic, 200  
     — compound, 211  
     — jalap, 257  
     — tincture, 257  
     — Kermes mineral, 106  
     — lactate of quinine, 364  
     — lactucarium, 262  
     — extract, 263  
     — water, 263  
     — laudanum and asarabacca, 302  
     — soap, 302  
     — tartar emetic, 304  
     — lettuce and dandelion, 262  
     — liquorice, 224  
     — lobelia, 268  
     — logwood, extract, 228  
     — magnesia, 268  
     — and gentian, 270  
     — rhubarb, 270  
     — malate of iron, 209  
     — male fern, 214  
     — manna, 273  
     — mercurial, 234  
     — milk and suet, 261  
     — monesia, 279  
     — muriate of morphia, 282  
     — quinine, 244  
     — muriatic ether, 80  
     — myrrh, compound, 287  
     — Griffith's, 287  
     — narcotine, 288  
     — neutral, 334  
     — compound, 335  
     — nitrate of ammonia, 96  
     — potassa, 336  
     — nitric acid, 74  
     — nux vomica, 289  
     — odontalgic, 149  
     — oil of almonds, 101  
     — amber, 392  
     — anise, 104  
     — cajeput, 289  
     — juniper, 258  
     — mole plant, 199  
     — valerian, 406  
     — oleaginous, 291  
     — olive oil, 291  
     — opium and cinnamon water, 300  
     — lime water, 300  
     — syrup of poppies, 300
- Mixture, pectoral, 274  
     — Peruvian bark, 161, 166  
     — phosphate of soda, 384  
     — pomegranate root, extract, 225  
     — Prussian blue, 206  
     — quince seed, 189  
     — rhatany, 260  
     — rhubarb, 351  
     — rue, 355  
     — scammony, 366  
     — sedative, 301, 306  
     — semen contra, 115  
     — seneka, 372  
     — senna, 375  
     — soot, 216  
     — spermaceti, 155  
     — squill, syrup, 369  
     — extract, and rhubarb, 369  
     — oxymel and ammoniac, 370  
     — ipecacuanha, 370  
     — marsh mallow, 370  
     — valerian, 369  
     — vinegar, 370  
     — and ammoniac, 370  
     — starch and suet, 102  
     — stramonium, 388  
     — strychnine, 390  
     — subcarbonate of iron, 202  
     — succinate of ammonia, 96  
     — sugar of milk and gum Arabic, 261  
     — Iceland moss, 261  
     — sulphate of iron, 212  
     — magnesia and coffee, 271  
     — nitric acid, 272  
     — Rochelle salt, 271  
     — sulphuric acid, 271  
     — tartar emetic, 271  
     — morphia, 283  
     — potassa, 337  
     — quinine, 346  
     — and coffee, 346  
     — zine, 415  
     — sulphur, 394  
     — sulphuret of antimony, 106  
     — and lime, 106  
     — carbon, 395  
     — potassium, 328  
     — sodium, 379  
     — sulphuric ether and camphor, 81  
     — turpentine, 87  
     — sweet spirit of nitre, 80  
     — tannic acid, 76  
     — tartarized soda, 385  
     — tartrate of potassa, 338  
     — and ammonia, 339  
     — tobacco, 396  
     — turpentine, 403  
     — oil, 292  
     — and ether, 293  
     — uva ursi, 404  
     — valerian and ammonia, 405  
     — Hoffmann's anodyne, 406  
     — vinegar, 67  
     — and eardamoms, 67  
     — Virginia snakeroot, acetated, 376  
     — and allspice, 376  
     — wine of opium, 301  
     — wormseed oil, 157
- Mode of administration of medicine, 47  
 Molasses beer, 420  
     — posset, 419  
 Mole plant, 198  
     — mixture of oil, 199  
 Monesia, 279

- Monesia, mixture, 279  
 — ointment, 280  
 — purified, 279  
 — syrup, 279  
 — compound, 279  
 — tincture, 279  
 Monkshood, 17  
 Morphia, 280  
 — acetate, 280  
 — bolus, 281  
 — clyster, 281  
 — mixture, 281  
 — ointment, 281  
 — pills, 281  
 — powder, compound, 281  
 — solution, 281  
 — alcoholic, 281  
 — bimeconate, 281  
 — solution, 281  
 — citrate, 281  
 — draught, 280  
 — hydriodate, 282  
 — injection, 280  
 — muriate, 282  
 — lozenges, 282  
 — and ipecacuanha, 282  
 — mixture, 282  
 — solution, 282  
 — syrup, 282  
 — compound, 282  
 — nitrate, 282  
 — pills, 280  
 — phosphate, 282  
 — sulphate, 282  
 — bolus, 282  
 — lotion, 283  
 — mixture, 283  
 — pills, 282  
 — solution, 283  
 — syrup, 283  
 — tartrate, 283  
 Mucilage, gum Arabic, 66  
 — mercurial, 233  
 — rice, 304  
 — salep, 417  
 — sassafras pith, 365  
 — starch, 101  
 — tragacanth, 402  
 Mudar, 138  
 — infusion, 138  
 — oil, 138  
 — pills, 138  
 Mulberries, 280  
 — syrup, 280  
 — root, 280  
 Mulled wine, 419  
 Muriate of ammonia, 95  
 — cinchonine, 104  
 — manganese, 272  
 — morphia, 282  
 — narcotine, 288  
 — opium, 300  
 — quinine, 166  
 Muriatic acid, 73  
 — bath of, 74  
 — diluted, 73  
 — draught, 74  
 — gargle, 74  
 — gaseous, 73  
 — liniment, 74  
 — lotion, 74  
 — pediluvium, 74  
 Musk, 283  
 — artificial, 391  
 — emulsion, 392  
 — tincture, 391  
 — bolus, 283  
 Musk, clyster, 284  
 — mixture, 284  
 — pills, 283  
 — powder, 283  
 — tincture, 284  
 Mustard, 377  
 — cataplasm, 377  
 — compound, 377  
 — fomentation, 377  
 — foot-bath, 377  
 — gargle, 377  
 — liniment, 378  
 — lotion, 378  
 — oil, 378  
 — tincture, 378  
 — ointment, 378  
 — compound, 378  
 — whey, 377  
 Mutton tea, 418  
 — broth, 419  
 Myrrh, 286  
 — collutory, 286  
 — extract, compound, 286  
 — gargle, 287  
 — injection, 287  
 — mixture, compound, 287  
 — Griffith's, 287  
 — oil, 287  
 — pills and Canada balsam, 286  
 — squill, 286  
 — sulphate of iron, 286  
 — zinc, 286  
 — plaster, 287  
 — powder, emmenagogue, 286  
 — and ipecacuanha, 286  
 — solution, alkaline, 286  
 — tincture, 287  
 — and hellebore, 287  
 Naphthaline, 287  
 — lozenges, 288  
 — ointment, 287  
 — syrup, 287  
 Narcotics, 61  
 Narcotine, 288  
 — bolus, 288  
 — mixture, 288  
 — muriate, 288  
 Neutral mixture, 334  
 New Jersey tea, 154  
 — decoction, 154  
 Nicotina, 396  
 Nitrate of camphor, 141  
 — potassa, 335  
 — quinine, 344  
 — silver, 111  
 — veratrine, 408  
 Nitre, 335  
 — sweet spirit, 79  
 Nitric acid, 74  
 — collutory, 74  
 — diluted, 74  
 — fomentation, 74  
 — liniment, 74  
 — lotion, 74  
 — mixture, 74  
 — ointment, 74  
 Nitro-muriatic acid, 75  
 — bath, 75  
 Nutmeg, 284  
 — clyster, 284  
 — powder, anti-hectic, 284  
 — aromatic, 284  
 — spirit, 285  
 — compound, 285  
 Nux vomica, 288  
 — extract, 288

- Nux vomica, extract, pills, 289  
     — lotion, 289  
     — mixture, 289  
     — pills, 289  
         — and aloes, 289  
     — compound, 289  
     — powder, 288  
     — tincture, 289  
         — compound, 289
- Oak bark, 341  
     — acorn coffee, 342  
     — cataplasm, 342  
     — confection, 342  
     — decoction, 342  
     — extract, 342  
     — gargle, 342  
     — powder, compound, 342
- Oat, 123  
     — cataplasm, 124  
     — decoction, 123  
     — flummery, 123  
     — gruel, groat, 123  
     — powder for cataplasm, 124
- Oatmeal gruel, 123
- Observations on management in the sick room, 45
- Official preparations and directions, 446
- Oil of almond, 100  
     — bitter, 100  
     — amber, 391  
         — purified, 391  
     — benzoin, 129  
     — black pepper, resinous, 310  
         — volatile, 310  
     — box, 131  
     — cajeput, 289  
     — cantharides, 143  
     — caraway, 149  
     — castor, 291  
     — chlorine, 159  
     — cinnamon, 168  
     — cloves, 149  
     — cod liver, 290  
     — copaiba, 179  
     — croton, 293  
     — cubebs, 185  
     — dittany, 185  
     — eggs, 305  
     — elaterium, 195  
     — ergot, 197  
     — euphorbium, 199  
     — fennel, 215  
     — figwort, 371  
     — ginger, 416  
     — guaiacum, 227  
         — compound, 227  
     — hedge hyssop, 226  
     — hemlock, 176  
     — horsebean, 172  
     — horsemint, 279  
     — laurel, 263  
     — macassar, 214  
     — male fern, 214  
     — mezereon, green, 279  
     — mudar, 138  
     — mustard, 378  
     — myrrh, 287  
     — olive, 290  
     — orange flowers, 120  
     — parsley, 308  
     — partridge berry, 220  
     — pennyroyal, 229  
     — peppermint, 277  
     — rose, 352  
     — rosemary, 354  
     — roses, 352
- Oil of sassafras, 365  
     — savine, 357  
     — scammony, 366  
     — soot, 216  
     — stramonium, 389  
     — tansy, 397  
     — tobacco, 396  
     — turpentine, 292  
         — and ether, 293  
         — honey, 292  
         — clyster, 293  
         — emulsion, 292  
         — liniment, 293  
             — acetic, 293  
             — opiated, 293  
             — sulphuric, 293  
     — lotion, 292  
         — for toothache, 292  
     — mixture, 292  
     — phosphorated, 309  
     — purified, 292  
     — soap, Starkcy's, 293  
     — wine, 293  
     — valerian, 406  
     — violets, 409  
     — wormseed, 157  
     — wormwood, 65  
         — essential, 65
- British, 307  
 — Dippel's, 289  
 — distilled, 456  
 — essential, 556  
 — fixed, 460  
 — phosphorated, 308  
 — volatile, 456
- Ointments, 471
- Ointment, aconitine, 78
- ammoniacal, 93  
     — Anglo-Saxon, 90  
     — anodyne, 299  
     — arsenical, 69  
     — Banyer's, 317  
     — basilicon, 348  
     — camphor, 140  
     — Egyptian, 186  
     — for chilblains, 90  
     — issue, 144  
     — itch, 362  
     — laudanum, 303  
     — mercurial, 234  
         — camphorated 235  
         — compound, 235  
         — and belladonna, 235  
     — naphthaline, 287  
     — phosphorated, 309  
     — pile, 90, 314  
     — Rust's, 90  
     — saffron, 183  
     — savine, 357  
     — soot, 216  
         — compound, 216  
     — spermaceti, 155  
         — and rose water, 155  
     — sulphuric acid, 76  
     — sultana, 155  
     — of acetate of lead, 314  
     — morphia, 281  
     — aconite, 78  
     — ammoniated, 78  
     — aloes, 86  
     — American hellebore, 409  
         — Gondret's, 93  
     — ammoniated copper, 187  
     — animal charcoal, 146  
     — arseniate of iron, 201  
     — azedarach, 124  
     — balsam of Peru, 286

Ointment of balsam of Peru, compound, 286  
     — belladonna, 128  
     — bichloride of platina, 313  
     — biniodide of potassium, 325  
         — and opium, 325  
     — black hellebore, 230  
         — oxide of mercury, 244  
         — pepper, 310  
         — pitch, 312  
     — borax, 381  
     — bromide of iron, 202  
         — potassium, 319  
         — compound, 319  
     — calomel, 241  
         — and acetate of copper, 241  
         — alum, 241  
         — camphor, 241  
         — squill, 241  
     — cantharides, 143  
     — carbonate of ammonia, 93  
         — lead, 316  
         — camphorated, 316  
         — potassa, 333  
         — soda, 352  
     — carburet of iron, 204  
     — carrot, 148  
     — cevadilla, 356  
         — extract, 356  
     — charcoal, 146  
     — cherry laurel, 264  
     — chloride of antimony, 145  
         — gold, 121  
         — and sodium, 122  
         — lead, 316  
     — chlorinated lime, 134  
     — chlorine, 159  
     — cocculus indicus, 168  
     — cod liver oil, 290  
         — compound, 290  
     — common salt, 379  
         — compound, 379  
     — creasote, 182  
         — compound, 182  
     — croton oil, 295  
     — cyanide of silver, 110  
     — cyanuret of mercury, 242  
         — potassium, 321  
     — delphinia, 189  
     — elder flowers, 359  
         — leaves, 359  
     — elemi, 195  
     — fennel, 215  
     — figwort, 371  
     — foxglove, 191  
     — fuligokali, 216  
     — galls, 219  
         — compound, 219  
         — extract, 218  
     — glycerin, 223  
     — gold, 120  
     — hemlock, 175  
     — henbane, 249  
         — compound, 249  
     — hops, 232  
     — hydrargyro-iodide of potassium, 325  
     — hydriodate of ammonia, 94  
     — iodide of arsenic, 113  
         — barium, 125  
         — carbon, 147  
         — iron, 208  
         — lead, 317  
         — mercury, 242  
         — potassium, 322  
         — and opium, 322  
         — mercury, 323  
         — morphia, 323  
     — silver, 111

Ointment of iodide of sulphur, 395  
     — zinc, 413  
     — iodine, 252  
         — compound, 252  
         — with mercury, 252  
         — oil of tobacco, 252  
     — laurel, 263  
     — lavender, 265  
     — lead, 317  
         — compound, 317  
     — lime, 136  
     — lupulin, 269  
     — marygold, 138  
     — marsh mallow, 86  
     — mezeoreon, 279  
     — monesia, 280  
     — mustard, 378  
         — compound, 378  
     — nitrate of bismuth, 130  
         — mercury, 243  
         — silver, 112  
         — compound, 112  
         — strychnine, 391  
     — nitric acid, 74  
     — opium and tar, 299  
     — oxide of manganese, 273  
         — and sulphur, 273  
         — silver, 111  
     — petroleum, 307  
     — picrotoxin, 168  
     — poke, 309  
     — Prussian blue, 206  
     — red iodide of mercury, 243  
         — oxide of mercury, 244  
         — and basilicon, 245  
         — cinnabar, 245  
         — lead, 245  
         — sulphur, 245  
         — tin, 245  
         — zinc, 245  
     — sulphuret of mercury, 247,  
     — rhatany, compound, 260  
     — rose water, 352  
     — squill, 370  
         — compound, 370  
     — stavesacre, 388  
     — stramonium, 389  
     — strychnine, 390  
     — subacetate of lead, 315  
     — sulphate of cadmium, 135  
         — copper, 188  
         — mercury, 246  
         — quinine, 347  
     — sulphur, 394  
         — and camphor, 394  
         — soap, 394  
         — zinc, 394  
         — compound, 394  
     — sulphuret of antimony, 105  
         — potassium, 328  
         — sodium, 379  
     — tannate of lead, 318  
     — tannic acid, 76  
     — tar, 312  
         — compound, 312  
     — tartar emetic, 108  
         — compound, 103  
     — tin, 387  
     — tobacco, 396  
     — turpentine, 399  
         — compound, 399  
     — veratrin, 408  
         — and iodine, 408  
         — opium, 408  
     — verdigris, 186  
     — white hellebore, 409  
         — compound, 409



Ointment of white precipitate, 236  
 ——— wild indigo, 124  
 ——— willow leaves, 358  
 ——— zinc, oxide, 411  
 ——— and calomel, 411  
 ——— lycopodium, 411  
 ——— opium, 411  
 Olive oil, 290  
 ——— clyster, 291  
 ——— mixture, 291  
 Opiate, anti-dysenteric, 298  
 Opium, 295  
 ——— balsam, 298  
 ——— cerate, 299  
 ——— clyster, 299  
 ——— collyrium, 299  
 ——— confection, 298  
 ——— draught, anodyne, 303  
 ——— drops, 298  
 ——— elixir, Lettsom's, 303  
 ——— extract, acetous, 295  
 ——— alcoholic, 295  
 ——— aqueous, 295  
 ——— aqueo-alcoholic, 295  
 ——— denarcotized, 296  
 ——— fermented, 296  
 ——— roasted, 296  
 ——— vinous, 295  
 ——— Godfrey's cordial, 302  
 ——— fomentation, 299  
 ——— injection, 299  
 ——— linctus, 299, 303  
 ——— liniment, 298  
 ——— with oil of chamomile, 298  
 ——— lozenges, Wistar's, 304  
 ——— mass, anti-odontalgic, 298  
 ——— mixture, anti-otitic, 299  
 ——— brown cough, 303  
 ——— with cinnamon water, 300  
 ——— lime water, 300  
 ——— syrup of poppies, 300  
 ——— sedative, 301  
 ——— muriate, 300  
 ——— ointment, 299  
 ——— and tar, 299  
 ——— pills, 296  
 ——— aromatic, 297  
 ——— with acetate of lead, 297  
 ——— mercury, 297  
 ——— antimony, 296  
 ——— butter of cocoa, 297  
 ——— camphor, 297  
 ——— castor, 297  
 ——— foxglove, 297  
 ——— hemlock, 297  
 ——— and henbane, 296  
 ——— liquorice, 297  
 ——— musk, 297  
 ——— nitrate of silver, 297  
 ——— sulphate of zinc, 297  
 ——— sulphuret antimony, 297  
 ——— plaster, 298  
 ——— with camphor, 298  
 ——— powder, compound, with chalk, 296  
 ——— roasted, 296  
 ——— with antimony, 296  
 ——— camphor, 296  
 ——— musk, 296  
 ——— nitre, 296  
 ——— sulphur, 296  
 ——— suppository, 299  
 ——— syrup, 299  
 ——— succinated, 299  
 ——— tincture, 301  
 ——— acetated, 301  
 ——— ammoniated, 302  
 ——— and asarabacca, 302

Opium tincture and soap, 302  
 ——— tartar emetic, 304  
 ——— Bateman's, 302  
 ——— Battley's, 302  
 ——— camphorated, 302  
 ——— clyster, 303  
 ——— compound, 302  
 ——— liniment, 303  
 ——— and lime water, 303  
 ——— ointment, 303  
 ——— Smith's, 302  
 ——— succinated, 302  
 ——— Swediaur's, 302  
 ——— Warner's, 303  
 ——— Guy's hospital, 300  
 ——— Houlton's, 300  
 ——— Lancaster, 300  
 ——— mixture, 301  
 ——— vinegar, or black drop, 300  
 ——— Porter's, 301  
 ——— Rousseau's, 300  
 ——— water, 300  
 ——— wine, 301  
 ——— collyrium, 301  
 ——— drops, odontalgic, 301  
 ——— fomentation, 301  
 ——— mixture, 301  
 ——— Sydenham's, 301  
 Opodeldoc, liquid, 91  
 ——— Steer's, 91  
 Opoponax, 304  
 ——— emulsion, 304  
 ——— tincture, 304  
 ——— compound, 304  
 Orange, 118  
 ——— flowers, 120  
 ——— confection, 120  
 ——— oil, 120  
 ——— pastilles, 120  
 ——— syrup, 120  
 ——— water, 120  
 ——— leaves, 119  
 ——— electuary, 119  
 ——— jelly, 119  
 ——— peel, 119  
 ——— confection, 119  
 ——— electuary, 119  
 ——— elixir, 119  
 ——— infusion, 119  
 ——— compound, 119  
 ——— powder, with rhubarb, 119  
 ——— spirit, 119  
 ——— syrup, 119  
 ——— tincture, 119  
 Orgeat, syrup of, 99  
 Origanum, 304  
 Orpiment, 114  
 ——— gargle, 114  
 ——— lotion, 114  
 ——— powder, 114  
 Orris root, 255  
 ——— dentifrice, 255  
 Oxalic acid, 75  
 ——— lozenges, 75  
 Oxide, antimony, nitro-muriatic, 105  
 ——— gold, 122  
 ——— manganese, 273  
 ——— silver, 111  
 ——— zinc, 410  
 Oxymel, 276  
 ——— bitartrate of potassa, 339  
 ——— colchicum, 171  
 ——— elecampane, compound, 250  
 ——— squill, 370  
 Oyster-shell, prepared, 136  
 Panada, 417

- Panada, chicken, 419  
 Paregoric elixir, 302  
 Pareira brava, 306  
     — decoction, 307  
     — extract, 307  
     — infusion, 306  
     — tincture, 307  
 Parsley, 308  
     — infusion of, 308  
     — oil of, 308  
 Partridge-berry, 220  
     — oil, 220  
     — water, 220  
 Pastes, 462  
 Paste, almond, 99  
     — chloride of zinc, 411  
     — cocoa, compound, 132  
     — copaiba, 179  
     — de guimauve, 66  
     — fig, 214  
     — liquorice, 224  
     — marshmallow, 86  
     — odontalgic, 275  
     — pectoral, of gum Arabic, 66  
     — phosphorus, 309  
     — tragacanth, 402  
     — rubefacient, 314  
     — Ward's, 310  
 Pastilles, catechu, 153  
     — fumigating, 128  
     — orange flowers, 120  
     — purgative, 366  
     — vinegar, 67  
 Paullinia, 307  
     — chocolate, 307  
     — extract, alcoholic, 307  
     — lozenges, 307  
     — pills, 307  
     — syrup, 307  
 Pediluvium, mustard, 377  
     — muriatic acid, 74  
 Pellitory, 340  
     — extract, 340  
     — liniment, 340  
     — lozenges, 340  
     — plaster, 340  
     — tincture, 340  
         — compound, 340  
 Pennyroyal, 229  
     — infusion, 229  
     — oil, 229  
 Pepper, black, 310  
     — cubebs, 183  
     — Jamaica, 310  
     — white, 310  
 Peppermint, 277  
     — essence, 277  
     — lozenges, 277  
     — mixture, 277  
     — oil, 277  
 Persimmon, 193  
     — infusion of bark, 193  
     — wine of fruit, 193  
 Persulphate of mercury, 245  
 Peruvian bark, 160  
     — beer, 165  
     — cataplasm, 165  
     — cerate, 165  
     — clyster, 165  
     — decoction, 162  
     — compound, 163  
     — mixture, 163  
     — with cascarilla, 163  
     — rhatany, 163  
     — electuary, 164  
     — astringent, 164  
     — with catechu, 164  
 Peruvian bark, electuary, with cloves, 164  
     — iron, 164  
     — sulphur, 164  
     — tin, 164  
     — extract, 162  
         — bolus, 162  
         — pills, 162  
         — vinous, 162  
     — gargle, 165  
     — gelatine, 165  
     — infusion, 163  
     — compound, 164  
         — with iron, 164  
         — with limewater, 163  
     — magnesia, 163  
     — snakeroot, 163  
     — valerian, 163  
     — lotion, 165  
     — mixture, 161, 166  
     — pomatum, 165  
     — powder, compound, 160  
         — dentifrice, 161  
         — with arnica, 161  
     — camphor, 161  
     — cascarilla, 161  
     — isinglass, 161  
     — valerian, 161  
     — syrup, 166  
         — compound, 165  
         — tincture, 164  
         — compound, 164  
         — with ammonia, 165  
         — cantharides, 165  
         — gentian, 165  
         — snakeroot, 165  
         — valerian, 164  
     — wine, 166  
     — and calamus, 166  
     — iron, 166  
 Petroleum, 307  
     — anthelmintic mixture, 308  
     — British oil, 307  
     — diuretic mixture, 308  
     — embrocation, 307  
     — ointment, 307  
     — plaster, 308  
 Pharmaceutical names, table of, 433  
 Phloridzine, 308  
     — powder of, 308  
 Phosphate of ammonia, 96  
     — iron, 210  
     — lime, 137  
     — mercury, 245  
     — quinine, 344  
     — soda, 384  
 Phosphoric acid, 75  
     — diluted, 75  
     — fomentation, 75  
     — lemonade, 75  
     — pills, 75  
     — tincture of myrrh, 75  
 Phosphorated ether, 308  
     — liniment, 309  
     — oil, 308  
     — turpentine, 309  
     — ointment, 309  
 Phosphorus, 308  
     — cerate, 309  
     — paste, 309  
 Picrotoxin, 168  
 Pills, 447  
     — Abernethy's, 234  
     — acetate of copper, 185  
     — lead, 313  
     — mercury, 236  
     — and opium, 236  
     — morphia, 251

- Pills, acetate of potassa, compound, 329  
     — soda, compound, 379  
     — aconite, extract, 77  
     — agaric and opium, 134  
     — aloes, 82  
     — and assafetida, 82  
     — blue mass, 84  
     — iron, 82  
     — myrrh, 82  
     — rhubarb, 84  
     — Anderson's, 83  
     — antichlorotic, 83  
     — aperient, 84  
     — Barthez's, 84  
     — Bicker's, 84  
     — Chapman's, 82  
     — compound, 82  
     — Duchesne's, 83  
     — Frank's, 84  
     — Fuller's, 83  
     — Griffiths', 84  
     — James's analeptic, 83  
     — Hooper's, 83, 211  
     — Lady Webster's, 83  
     — Mitchell's, 82  
     — Morrison's, 83  
     — Peters', 83  
     — Pitschaft's eccoprotic, 84  
     — Rufus', 82  
     — Speediman's, 83, 349  
     — splenitic, 83  
     — Whytt's, 84  
     — alum, 88  
     — and benzoin, 88  
     — astringent, 88  
     — American hellebore, 409  
     — ammoniac, 97  
     — and rhubarb, 97  
     — compound, 97  
     — De Haen's, 97  
     — Klein's, 97  
     — ammoniated copper, 187  
     — compound, 187  
     — gold, 123  
     — iron, 201  
     — anemone, 102  
     — antimonial powder and calomel, 109  
     — arseniate of iron, 201  
     — arsenic and opium, 70  
     — pepper, 69  
     — arsenical, 69  
     — assafetida, 116  
     — and aloes, 48  
     — lactucarium, 116  
     — iron, 117  
     — musk, 117  
     — opium, 117  
     — Bacher's, 230  
     — balsam of Peru, 285  
     — belladonna, compound, 127  
     — bichloride of platina, 313  
     — bittersweet, extract, 194  
     — black hellebore, 229  
     — extract of, 230  
     — black oxide of mercury, 244  
     — Bland's antichlorotic, 211  
     — bloodroot, 360  
     — blue, or mercurial, 234  
     — and colocynth, 234  
     — jalap, 234  
     — quinine, 234  
     — rhubarb, 234  
     — compound, 234  
     — borotartarate of potassa, compound, 331  
     — bromide of iron, 201  
     — brucia, 131  
     — buckbean, compound, 278
- Pills, calomel, 239  
     — and acetate of lead, 239  
     — antimony, 240  
     — catechu, 240  
     — colocynth, 240  
     — dandelion, 240  
     — guaiacum, 240  
     — iron, 240  
     — jalap, 240  
     — opium, 240  
     — quinine, 239  
     — squill, 240  
     — compound, 240  
     — camphor, 138  
     — compound, 138  
     — and lactucarium, 138  
     — musk, 138  
     — cantharides and capsicum, 142  
     — iron, 142  
     — carbonate of ammonia, 93  
     — iron, 202  
     — compound, 203  
     — soda, 381  
     — carburet of iron, 203  
     — castor, 151  
     — and succinic acid, 151  
     — catechu and alum, 152  
     — liquorice, 152  
     — cathartic, compound, 240  
     — Cayenne pepper, 145  
     — celandine, 157  
     — centaury, extract, 154  
     — chamomile, compound, 144  
     — chloride of barium, 125  
     — calcium, 134  
     — gold, 121  
     — and sodium, 121  
     — mercury and quinine, 241, 343  
     — silver and ammonia, 110  
     — colchicum, 170  
     — compound, 170  
     — colocynth, compound, 173  
     — and henbane, 173  
     — columbo, compound, 174  
     — copaiba, 177  
     — and cubebs, 177  
     — and turpentine, 178  
     — corrosive sublimate, 237  
     — compound, 237  
     — creasote, 181  
     — croton oil, 293  
     — compound, 294  
     — and blue mass, 294  
     — quinine, 294  
     — cyanide of gold, 122  
     — zinc, 412  
     — cyanuret of mercury, compound, 241  
     — potassium, 320  
     — dandelion, 398  
     — and blue mass, 398  
     — digitalin, 192  
     — dogwood, round-leaved, 181  
     — elaterium, 194  
     — elecampane, compound, 250  
     — ergot, extract of, 197  
     — compound, 197  
     — ferrocyanate of quinine, 343  
     — zinc, compound, 412  
     — foxglove, 190  
     — fuligokali, sulphuretted, 216  
     — galbanum, compound, 217  
     — gallic acid, 71  
     — gamboge, compound, 219  
     — gentian, compound, 220  
     — and ammonia, 220  
     — gentianin, 222

- Pills, guaiacum and aloes, 227  
     — antimony, 227  
     — sulphur, 227  
     — turpentine, 227  
     — hemlock and calomel, 175  
     — dandelion, 175  
     — ipecacuanha, 175  
     — henbane, compound, 248  
     — and ipecacuanha, 248  
     — opium, 248  
     — hydrargyro-iodide of potassium, 325  
     — iodide of arsenic, 113  
     — calcium, 135  
     — iron, 207  
     — lead, 317  
     — mercury, 242  
     — compound, 242  
     — potassium, 321  
     — iodine, 251  
     — indigo, 250  
     — ipecacuanha and centaury, 254  
     — foxglove, 254  
     — opium, 253  
     — compound, 254  
     — iron, prepared, 200  
     — jalap and calomel, 256  
     — compound, 256  
     — Keyser's, 236  
     — kinate of quinine, 344  
     — kino, compound, 259  
     — lactate of iron, 208  
     — quinine, 344  
     — lactucarium, 262  
     — Lockstadt's, 101  
     — lupulin, 268  
     — male fern, extract, 214  
     — oil, 214  
     — marygold, extract, 137  
     — mercury and antimony, 233  
     — gum, with hemlock, 233  
     — morphia, 280  
     — mudar, 138  
     — muriate of manganese, 272  
     — musk, 283  
     — myrrh and Canada balsam, 286  
     — squill, 286  
     — sulphate of iron, 286  
     — zinc, 286  
     — nitrate of bismuth, 130  
     — potassa, 335  
     — and camphor, 335  
     — silver, 111  
     — nux vomica, 289  
     — and aloes, 289  
     — compound, 289  
     — extract, 289  
     — compound, 289  
     — opium, 296  
     — and acetate of lead, 297  
     — mercury, 297  
     — butter of cacao, 297  
     — camphor, 297  
     — castor, 297  
     — foxglove, 297  
     — hemlock, 297  
     — henbane, 296  
     — liquorice, 297  
     — musk, 297  
     — nitrate of silver, 297  
     — sulphate of zinc, 297  
     — sulphuret antimony, 297  
     — aromatic, 297  
     — oxide, black, of iron, 210  
     — gold, 123  
     — red, of iron, 210  
     — zinc, 410  
     — compound, 410
- Pills, paullinia, 307  
     — Peruvian bark, extract, 162  
     — phosphate of mercury, 245  
     — phosphoric acid, 75  
     — piperine, 311  
     — and mercury, 311  
     — pipsissewa, 158  
     — Plummer's, 240  
     — poison oak, 402  
     — proto-nitrate of iron, 207  
     — mercury, 243  
     — Prussian blue, 206  
     — red iodide of mercury, 243  
     — oxide of mercury, 244  
     — rhatany, 259  
     — rhubarb, 349  
     — compound, 349  
     — and caraway, 349  
     — chamomile, 349  
     — ipecacuanha, 349  
     — ox-gall, 349  
     — soda, 349  
     — saffron, 183  
     — sagapenum, compound, 357  
     — salicine, 358  
     — compound, 358  
     — savine, 356  
     — scammony, 366  
     — and ox-gall, 366  
     — compound, 366  
     — seneka, 371  
     — senna, 373  
     — soap, 361  
     — and ox-gall, 361  
     — compound, 361  
     — soda and ipecacuanha, 381  
     — rhubarb, 381  
     — soot, 215  
     — squill and ammoniac, 367  
     — calomel, 367  
     — croton oil, 367  
     — ipecacuanha, 367  
     — henbane, 368  
     — compound, 368  
     — stimulant, 390  
     — storax, 389  
     — stramonium, 388  
     — compound, 388  
     — strychnine, 390  
     — compound, 390  
     — sulphate of cinchonia, 166  
     — copper, 187  
     — and opium, 187  
     — compound, 188  
     — iron, 211  
     — and rhubarb, 211  
     — compound, 211  
     — morphia, 282  
     — potassa, 337  
     — quinine, 345  
     — compound, 346  
     — with gentian, 346  
     — soda, compound, 384  
     — zinc, 414  
     — compound, 414  
     — with myrrh, 414  
     — turpentine, 414  
     — sulphuret of antimony, 105  
     — and lime, 106  
     — calcium, compound, 135  
     — mercury, black, 246  
     — red, 246  
     — potassium, 326  
     — and charcoal, 326  
     — compound, 326  
     — tin, compound, 388  
     — tannic acid, 76



- Pills, tannic acid, and opium, 76  
 — tansy, 397  
 — tar, 392  
 — tartar emetic and camphor, 107  
 — ———— guaiacum, 107  
 — ———— opium, 107  
 — tobacco, 396  
 — turpentine, 399  
 — ———— and guaiacum, 399  
 — ———— jalap, 399  
 — ———— magnesia, 399  
 — ———— myrrh, 399  
 — ———— rhubarb, 399  
 — valerian, compound, 405  
 — valerianate of zinc, 415  
 — veratrin, 407  
 — ———— and henbane, 408  
 — Virginia snakeroot, compound, 376  
 Pink, 190  
 — syrup, 190  
 Pinkroot, 386  
 — ———— and calomel, 386  
 — ———— savine, 386  
 — ———— decoction, 387  
 — ———— extract, 387  
 — ———— fluid, 386  
 — ———— compound, 386  
 — infusion, compound, 386  
 Piperine, 311  
 — pills of, 311  
 — ———— and mercury, 311  
 — ———— tincture of, 311  
 Pipsisewa, 157  
 — beer, 158  
 — decoction, 157  
 — ———— compound, 157  
 — extract, 157  
 — pills, 158  
 — syrup, 158  
 Pitch, black, 312  
 — ———— ointment of, 312  
 — ———— plaster of, 313  
 — Burgundy, 311  
 — Canada, 312  
 — cerate, 312  
 — hemlock, 312  
 — pills of, 312  
 — plaster, 311  
 — ———— aromatic, 311  
 — ———— compound, 311  
 Plasters, 472  
 Plaster, acetate of lead, 314  
 — adhesive, 348  
 — ———— Baynton's, 317  
 — ammonia, 91  
 — ammoniac, 98  
 — ———— with hemlock, 98  
 — ———— mercury, 98  
 — assafetida, 118  
 — balsam of Peru, 286  
 — belladonna, 128  
 — biniodide of potassium, 325  
 — black pepper, 310  
 — ———— pitch, 313  
 — cantharides, camphorated, 144  
 — ———— compound, 144  
 — ———— odontalgic, 144  
 — carbonate of ammonia, 93  
 — ———— lead, 316  
 — ———— zinc, 414  
 — carburet of iron, 204  
 — cinnamon, spice, 168  
 — clove, 149  
 — court, 249  
 — ———— blistering, 144  
 — croton oil, 295  
 — cumin, 189  
 Plaster, diapalma, 317  
 — elemi, cautory, 195  
 — euphorbium, 199  
 — foxglove, 191  
 — galbanum, 217  
 — ———— compound, 217  
 — Gauthier's, 317  
 — gum, 98  
 — hemlock, 176  
 — ———— compound, 176  
 — iodine, 252  
 — iron, 203  
 — lead, 317  
 — mercurial, 235  
 — ———— and belladonna, 235  
 — myrrh, 287  
 — Nuremberg, 318  
 — opium, 298  
 — ———— and camphor, 298  
 — pellitory, 340  
 — petroleum, 308  
 — pitch, 311  
 — ———— aromatic, 311  
 — ———— compound, 311  
 — red oxide of iron, 210  
 — resin, 348  
 — spice, 416  
 — St. Andrew's, 348  
 — subacetate of lead, 315  
 — sulphate of quinine, 347  
 — sulphuret of antimony and lime, 107  
 — ———— potassium, compound, 328  
 — tartar emetic, 108  
 — turpentine, 399  
 — ———— compound, 400  
 — verdigris, 186  
 Platina, 313  
 — bichloride of, 313  
 — mixture of, 313  
 — ointment of, 313  
 — pills of, 313  
 Pleurisy root, 115  
 — ———— infusion, 115  
 Plummer's pills, 240  
 Podophyllin, 318  
 Poids de Marc, 12  
 Poison, extract, 402  
 — oak, 402  
 — pills, 402  
 — tincture, 402  
 Poisons, 479  
 Poke, 309  
 — ———— ointment of, 309  
 Polygalic acid, 372  
 Pomatum, cantharides, 144  
 Pomegranate, 225  
 — ———— bolus of root, 226  
 — ———— decoction of rind, 225  
 — ———— ———— root, 225  
 — ———— extract of root, 225  
 — ———— ———— electuary, 225  
 — ———— ———— mixture, 225  
 — ———— gargle of rind, 225  
 — ———— injection of rind, 225  
 Poppy heads, 306  
 — ———— decoction, 306  
 — ———— injection, sedative, 306  
 — ———— mixture, sedative, 306  
 — ———— syrup, 306  
 — ———— ———— pectoral, 306  
 — ———— red, 357  
 Portland powder, 154  
 Posological table, 426  
 Posset, molasses, 419  
 Potassa, 328  
 — ———— acetate, 329  
 — ———— scillitic, 329

Potassa, acetate, bolus, 329  
     — conserve, 329  
     — liquid, 330  
         — mixture, 330  
     — pills, compound, 329  
     — tincture, 330  
     — arseniate, 330  
         — mixture, 330  
         — solution, 330  
     — bicarbonate, 333  
         — effervescing powders, 333  
         — solution, 333  
         — mixture, 334  
     — bisulphate, 337  
         — disinfecting powder, 337  
         — effervescing draught, 337  
     — bitartrate, 338  
         — dentifrice, 338  
         — electuary, 339  
         — imperial, 339  
         — mixture, 339  
         — oxymel, 339  
         — powder, 338  
         — solution, 339  
             — compound, 339  
     — borate, 330  
     — borotartrate, 331  
         — and magnesia, 331  
             — mixture, 331  
         — mixture, 331  
         — pills, compound, 331  
         — powder, 331  
         — solution, 331  
     — carbonate, 331  
         — and ammonia, 334  
         — collutory, 332  
         — collyrium, 332  
         — emulsion, 332  
         — fomentation, 332  
         — liniment, 332  
         — lotion, 332  
         — mixture, 332  
         — ointment, 333  
         — powder, 332  
         — pure, 332  
         — solution, 332  
         — tincture, 332  
             — compound, 333  
     — caustic, 328  
         — collyrium, 329  
         — injection, 329  
         — lotion, stimulant, 329  
         — mixture, 329  
         — solution of, 328  
             — lithontriptic, 329  
     — chlorate, 334  
         — powder, 334  
             — compound, 334  
             — solution, 334  
     — citrate, 334  
         — mixture, 335  
         — solution, 334  
             — compound, 335  
     — iodate, 335  
         — syrup, 335  
     — nitrate, 335  
         — emulsion, 336  
         — fused, 335  
         — gargle, 336  
         — lotion, 336  
         — mixture, 336  
         — pills, 335  
             — with camphor, 335  
         — powder, compound, 335  
             — with camphor, 335  
             — orris root, 335  
             — squill, 335

Potassa, nitrate, purified, 335  
     — oxalate, 336  
         — lozenges, 336  
         — powder, 336  
     — silicate, 336  
         — soluble glass, 337  
         — solution, 337  
     — sulphate, 337  
         — and ammonia, 337  
         — magnesia, 337  
         — sulphur, 338  
         — mixture, 337  
         — pills, 337  
         — powder, compound, 337  
             — and rhubarb, 337  
     — tartrate, 338  
         — and ammonia, 339  
             — mixture, 339  
             — solution, 339  
         — mixture, 338  
         — powder, and rhubarb, 338  
         — with lime, 328  
         — solution of, 328  
 Potassium, 319  
     — biniodide of, 323  
         — collyrium, 324  
         — ioduretted bath, 324  
         — water, 323  
         — Lu-  
         gol's, 323  
         — lotion, compound, 324  
         — mixture, 324  
         — ointment, 325  
             — and opium, 325  
         — plaster, 325  
         — solution, compound, 324  
             — caustic, 324  
         — syrup, 324  
         — tincture, compound, 324  
     — bromide of, 319  
         — ointment of, 319  
             — compound, 319  
             — solution of, 319  
     — chloride of, 319  
         — solution of, 320  
     — cyanuret of, 320  
         — lotion of, 320  
         — mixture of, 320  
         — ointment of, 321  
         — pills of, 320  
         — solution of, 320  
         — syrup of, 320  
     — hydrargyro-iodide of, 325  
         — ointment, 325  
         — pills, 325  
         — solution, 325  
         — tincture, 325  
     — iodide of, 321  
         — and sarsaparilla, 322  
         — injection of, 322  
         — liniment of, 323  
         — lozenges of, 321  
         — mixture of, 322  
         — ointment of, 322  
             — and mercury, 323  
             — morphia, 323  
             — opium, 322  
         — pills of, 321  
         — soap of, 323  
         — solution of, 321  
         — syrup of, 322  
     — sulpho-cyanuret of, 326  
     — sulphuret of, 326  
         — and cremor tartar, 326  
         — bath, 327  
         — bolus, 326  
         — electuary, 326

- Potassium, sulphuret of, ferro, 326  
 ————— hyposulphited, 326  
 ————— syrup, 327  
 ————— injection, 327  
 ————— lotion, 327  
 ————— compound, 327  
 ————— mixture, 328  
 ————— ointment, 328  
 ————— pills, 326  
 ————— compound, 326  
 ————— and charcoal, 326  
 ————— plaster, compound, 328  
 ————— soap, 328  
 ————— solution, 327  
 ————— syrup, 327  
 ————— compound, 327  
 ————— tincture, 327  
 ————— water, 327  
 Potion of carbonate of ammonia, 92  
 Poultices, 468  
 Powders, 446  
 ————— compound, 446  
 ————— simple, 446  
 Powder, acetate of lead, 313  
 ————— morphia, compound, 281  
 ————— aconite, compound, 77  
 ————— agaric, 130  
 ————— and opium, 130  
 ————— almond, 99  
 ————— aloes, 82  
 ————— and canella, 82  
 ————— compound, 82  
 ————— emmenagogue, 82  
 ————— alum, 87  
 ————— escharotic, 87  
 ————— ammoniated copper and belladonna, 187  
 ————— iron, 201  
 ————— animal charcoal, 145  
 ————— anthracokali, 147  
 ————— compound, 147  
 ————— antihectic, 284  
 ————— arnica, compound, 112  
 ————— aromatic, 147, 284  
 ————— arsenical, 69  
 ————— arsenic, compound, 69  
 ————— asarabacca, 115  
 ————— avens, compound, 223  
 ————— belladonna, 126  
 ————— and rhubarb, 127  
 ————— benzoic acid and ipecacuanha, 70  
 ————— benzoin, 128  
 ————— bicarbonate of potassa, 333  
 ————— bismuth, compound, 129  
 ————— bitartrate of potassa, 338  
 ————— black oxide of iron, 209  
 ————— sulphuret of mercury, 246  
 ————— borax, compound, 380  
 ————— borotartrate of potassa, 331  
 ————— burnt sponge, 387  
 ————— compound, 387  
 ————— calomel and antimony, 238  
 ————— jalap, 239  
 ————— foxglove, 239  
 ————— nitrate of potassa, 239  
 ————— opium, 239  
 ————— gamboge, 239  
 ————— pinkroot, 239  
 ————— antimony and henbane, 239  
 ————— jalap and rhubarb, 239  
 ————— camphor, 138  
 ————— compound, 138  
 ————— cantharides and camphor, 142  
 ————— savine, 141  
 ————— capuchin, 356  
 ————— carbonate of lead, camphorated, 316  
 ————— potassa, 332  
 Powder, carbonate of soda, effervescing, 381  
 ————— and magnesia, 381  
 ————— mercury, 381  
 ————— rhubarb, 381  
 ————— zinc, 414  
 ————— carburet of iron, 203  
 ————— cascarilla, compound, 150  
 ————— castor, compound, 151  
 ————— catechu, compound, 152  
 ————— cevadilla, compound, 355  
 ————— chalk, aromatic, 136  
 ————— compound, 136  
 ————— with opium, 136  
 ————— charcoal and quassia, 146  
 ————— chlorate of potassa, 334  
 ————— compound, 334  
 ————— chloride of barium, 124  
 ————— chloride of gold, 120  
 ————— and sodium, 121  
 ————— silver, 110  
 ————— cinnamon, compound, 167  
 ————— cocoa, compound, 132  
 ————— colocynth, compound, 172  
 ————— columbo and ginger, 174  
 ————— iron, 173  
 ————— magnesia, 173  
 ————— tartrate of iron, 174  
 ————— common salt and cochineal, 378  
 ————— compound, 378  
 ————— contrayerva, compound, 176  
 ————— coriander, compound, 180  
 ————— corrosive sublimate and copper, 237  
 ————— zinc, 237  
 ————— cubebs, 183  
 ————— and alum, 183  
 ————— ergot, 183  
 ————— hemlock, 183  
 ————— cyanide of gold, 122  
 ————— disinfecting, 337  
 ————— Dover's, 252  
 ————— emmenagogue, 286  
 ————— ergot, compound, 196  
 ————— fennel, compound, 215  
 ————— foxglove, 190  
 ————— fumigating, 128, 247  
 ————— galls, compound, 218  
 ————— gamboge, compound, 219  
 ————— gentian, compound, 220  
 ————— gold, 120  
 ————— golden sulphuret of antimony, 106  
 ————— guaiacum, compound, 227  
 ————— hæmostatic, 348  
 ————— hedge hyssop, 226  
 ————— hemlock, 175  
 ————— henbane, compound, 248  
 ————— horse chestnut, compound, 247  
 ————— indigo, 250  
 ————— iodide of barium, 125  
 ————— lead, 317  
 ————— mercury, 242  
 ————— sulphur, 295  
 ————— ipecacuanha and antimony, 253  
 ————— calomel, 253  
 ————— carbonate of soda, 253  
 ————— muriate of ammonia, 253  
 ————— myrrh, 253  
 ————— nitre, 253  
 ————— opium, 252  
 ————— rhubarb, 253  
 ————— tartar emetic, 253  
 ————— tragacanth, 253  
 ————— jalap and calomel, 255  
 ————— cremor tartar, 256  
 ————— ipecacuanha, 256  
 ————— scammony, 256  
 ————— compound, 256

Powder, James's, 109  
     — kermesine, 106  
         — compound, 106  
     — kino, compound, 258  
     — lavender, compound, 264  
     — lupuline, 268  
     — madder, compound, 354  
     — magnesia and orange peel, 269  
         — rhubarb, 269  
         — sulphur, 269  
     — male fern, 214  
     — marsh mallow, 86  
     — mercurial, compound, 233  
     — metallic iron, 200  
         — compound, 200  
     — milk, 261  
     — musk, 283  
     — myrrh and ipecacuanha, 286  
     — nitrate of potassa and camphor, 335  
         — orris root, 335  
         — squill, 335  
         — compound, 335  
     — nux vomica, 288  
     — oak bark, compound, 342  
     — opium and antimony, 296  
         — camphor, 296  
         — chalk, compound, 296  
         — musk, 296  
         — nitre, 296  
         — sulphur, 296  
         — roasted, 296  
     — orange peel and rhubarb, 119  
     — orpiment, 114  
     — oxalate of potassa, 336  
     — oxide of gold, 122  
         — manganese, 273  
     — Peruvian bark, and arnica, 161  
         — camphor, 161  
         — cascarrilla, 161  
         — isinglass, 161  
         — valerian, 161  
         — compound, 160  
     — phloridzine, 308  
     — phosphate of soda, compound, 384  
     — pinkroot and calomel, 386  
         — savine, 386  
     — Portland, 154  
     — Prussian blue, 205  
         — compound, 205  
     — red oxide of mercury, 244  
         — sulphuret of mercury, 246  
     — rhatany, compound, 259  
     — rhubarb and chalk, 348  
         — magnesia, 348  
         — sulphate of potassa, 348  
         — compound, 348  
     — sal ammoniac, 95  
     — salicin, compound, 358  
     — salivation, against, 72  
     — sarsaparilla and Peruvian bark, 362  
     — savine and ginger, 356  
         — pinkroot, 356  
         — Spanish flies, 356  
         — verdigris, 356  
     — scammony and cremor tartar, 365  
         — soot, 366  
         — compound, 366  
     — Seidlitz, 385  
     — semen contra, 115  
     — seneka, compound, 371  
     — senna, and guaiacum, 373  
         — compound, 373  
     — soap, cosmetic, 361  
     — spermaceti, compound, 155  
     — squill and calomel, 367  
         — cremor tartar, 367  
         — ipecacuanha, 367

Powder, squill and nitre, 367  
     — sulphur, 367  
         — compound, 367  
     — starch, compound, 101  
     — subcarbonate of iron, 202  
     — sulphate of copper, 187  
         — compound, 187  
     — iron, 211  
     — mercury, compound, 245  
     — potassa, and rhubarb, 337  
         — compound, 337  
     — quinine, 345  
         — and morphia, 345  
         — soda, 345  
     — tartar emetic, 345  
     — tartaric acid, 345  
         — compound, 345  
         — soda and opium, 384  
         — nitre, 384  
         — tartar emetic, 384  
     — sulphur and antimony, 393  
         — camphor, 392  
         — cremor tartar, 393  
         — liquorice, 393  
         — magnesia, 393  
         — orris root, 393  
         — compound, 393  
     — sulphuret of potassium and cremor tar-  
         tar, 326  
     — tartar emetic, 107  
         — and ipecacuanha, 107  
         — phosphate lime, 107  
         — quinine, 107  
         — compound, 107  
     — tartarized soda and rhubarb, 385  
     — tartrate of iron and columbo, 212  
         — effervescent, 212  
         — potassa and rhubarb, 338  
     — tragacanth, compound, 402  
     — uva ursi, compound, 404  
     — valerian, compound, 404  
     — verdigris and savine, 185  
     — wild ipecacuanha, 198  
     — willow bark, compound, 358  
     — white hellebore, 408  
     — zinc, oxide, 410  
         — and colombo, 410  
         — compound, 410  
         — cyanide, 412  
         — ferricyanide, 412

## Precipitation, 447

Preservative liquid, 134

Proper use of utensils, 49

Prunes, 340

Prussian blue, 205

— ink, 206

— mixture, 206

— ointment, 206

— pills, 206

— powder, 205

— compound, 205

Pudding, arrowroot, 274

— tapioca, 398

Pulp of purging cassia, 144

— tamarinds, 397

Purging cassia, 150

Purified animal charcoal, 145

Pyroligneous acid, 69

— cataplasm, 69

— injection, 69

— mouth wash, 69

Quassia, 341

— extract, 341

— infusion, 341



- Quassia, infusion, compound, 341  
     tincture, 341  
     compound, 341  
     wine, 341  
 Quiet in sick room, 47  
 Quince seeds, 188  
     bandoline, 180  
     decoction, 189  
     mixture, 189  
 Quinine, 342  
     acetate, 342  
     amorphous, 342  
     and chloride mercury, 343  
         pills, 344  
     arseniate, 343  
     citrate, 343  
         and iron, 343  
         syrup, 343  
     ferrocyanate, 343  
         mixture, 343  
         pills, 343  
     hydriodate, 343  
     impure, 342  
         tincture, 342  
     iodide, with iron, 343  
     ioduretted hydriodate, 343  
     kinate, 344  
         pills, 344  
     lactate, 344  
         mixture, 344  
         pills, 344  
         syrup, 344  
     muriate, 344  
         mixture, 344  
     nitrate, 344  
     phosphate, 344  
     sulphate, 344  
         dentifrice, 347  
         enema, 347  
         gargle, 347  
         liniment, 346  
         mixture, 346  
             with coffee, 346  
         ointment, 347  
         pills, 345  
             and gentian, 346  
             compound, 346  
         plaster, 347  
         powder, 345  
             and morphia, 345  
             soda, 345  
             tartar emetic, 345  
                 tartaric acid, 345  
             compound, 345  
             syrup, 346  
             and coffee, 346  
             tincture, 346  
             compound, 346  
             wine, 346  
             aromatic, 346  
         sulpho-tannate, 347  
         tannate, 347  
         tartrate, 347  
         valerianate, 347  
 Racahout, 132  
 Ratafia of wormwood, 66  
 Red cedar, 258  
     iodide of mercury, 243  
     lead, 318  
     oxide of iron, 210  
         mercury, 244  
     poppy, 351  
         infusion, 352  
         compound, 352  
     Red poppy, syrup, 352  
         roses, 352  
         sulphuret of mercury, 246  
 Refrigerants, 61  
 Resin, 347  
     cerate, 348  
     compound, 348  
     hemp, 141  
     jalap, 256  
     plaster, 348  
         St. Andrew's, 348  
     powder, hæmostatic, 348  
     scammony, 366  
 Rhatany, 259  
     clyster, 260  
     collutory, 260  
     dentifrice, 259  
     electuary, 259  
     extract, 259  
     infusion, 259  
     injection, 260  
     mixture, 260  
     ointment, compound, 260  
     pills, 259  
     powder, compound, 259  
     syrup, 260  
     tincture, 260  
 Rhubarb, 348  
     electuary, 349  
     extract, 350  
         fluid, 350  
     infusion, 349  
         alkaline, 350  
     lozenges, 349  
     mixture, 351  
     pills, 349  
         compound, 349  
             and caraway, 349  
             chalk, 348  
             chamomile, 349  
             ipecacuanha, 349  
             oxgall, 349  
             soda, 349  
     powder and magnesia, 348  
         sulphate of potassa, 348  
         compound, 348  
     roasted, 348  
     suppository, 349  
     syrup, 350  
         aromatic, 350  
         and senna, 350  
     tincture, 350  
         alkaline, 351  
         and aloes, 350  
         aniseed, 351  
         gentian, 350  
         senna, 350  
         Warner's cordial, 351  
     wine, 351  
         and gentian, 351  
         compound, 351  
 Rice, 304  
     blancmange, 420  
     custard, 420  
     gruel, 304  
     mucilage, 304  
     water, 304  
 Rochelle salt, 385  
 Rose, dog, 352  
     confection, 352  
     hundred-leaved, 352  
         collutory, 352  
         essence, 352  
         lozenges, 352  
         oil, 352  
         water, 352  
         ointment, 352

- Rose, red, 352  
     confection, 353  
     electuary, 353  
     honey, 353  
     infusion, acid, 353  
     syrup, 353  
     tincture, 353  
     vinegar, compound, 353  
     wine, 353  
 Rosemary, 353  
     aromatic bath, 353  
     fomentation, 853  
     vinegar, 353  
     Hungary water, 354  
     oil, 354  
     spirit, 354  
     tincture, 354  
 Rosin, 347  
 Round-leaved dogwood, 180  
 Rue, 355  
     confection, 355  
     extract, 355  
     mixture, 355  
     and squill, 355  
     syrup, 355  
     tincture, 355  
 Rules for the administration of medicine, 53  
 Rust's astringent, 87  
  
 Saccharate of lead, 318  
 Saccharine carbonate of iron, 202  
 Safflower, 148  
     infusion, 148  
 Saffron, 182  
     collyrium, 183  
     elixir, 183  
     infusion, 183  
     ointment, 183  
     pills, 183  
     syrup, 183  
     tincture, 183  
     compound, 183  
 Sagapenum, 357  
     pills, compound, 357  
 Sage, 358  
     gargle, 359  
     infusion, 358  
     compound, 359  
     vinegar, 359  
 Sago, 357  
     milk, 358  
     mucilage, 357  
     posset, 357  
 Sal ammoniac, 95  
 Salep, mucilage, 417  
     powder, compound, 417  
 Salicin, 358  
     pills, 358  
     compound, 358  
     powder, compound, 358  
 Salt, common, 378  
 Saltpetre, 335  
 Saponine, 361  
 Sarsaparilla, 362  
     beer, 365  
     decoction, 362  
     compound, 362  
     Feltz's, 363  
     Jauperand's, 363  
     Vinache's, 363  
     Zittman's, 363  
     essence, 363  
     compound, 364  
     extract, 363  
     fluid, 363  
     Indian, 230  
     decoction, 231  
     Sarsaparilla, Indian, infusion, 230  
     mixture, 230  
     syrup, 230  
     infusion, 362  
     alkaline, 362  
     Lisbon diet drink, 363  
     powder, with Peruvian bark, 362  
     syrup, 364  
     compound, 364  
     Gesnouin's, 365  
     Laffecteur's, 364  
 Sassafras, 364  
     bark, 364  
     infusion, 364  
     compound, 364  
     oil, 364  
     tincture, 364  
     compound, 364  
     pith, 364  
     mucilage, 364  
 Savine, 356  
     cerate, 357  
     extract, 356  
     infusion, 357  
     oil, 357  
     ointment, 357  
     pills, 356  
     powder with cantharides, 356  
     ginger, 356  
     pinkroot, 356  
     verdigris, 356  
     tincture, 357  
     compound, 357  
 Scammony, 365  
     chocolate, 367  
     confection, 366  
     elixir, 366  
     emulsion, 366  
     compound, 366  
     mixture, 366  
     oil, 366  
     pastilles, 366  
     de santé, 366  
     pills, 366  
     compound, 366  
     with ox-gall, 366  
     powder with cream tartar, 365  
     soot, 365  
     compound, 366  
 Scarifications, 477  
 Scurvy grass, 169  
     electuary, 169  
     gargle, 169  
 Sea holly, 197  
 Sealing-wax, red, 262  
 Sedatives, 61  
 Seidlitz powders, 385  
 Semen contra, 115  
     electuary, 115  
     mixture, 115  
     powder, 115  
 Semi-vitrified oxide of lead, 317  
 Seneka, 371  
     decoction, 372  
     emulsion, 372  
     extract with squill, 372  
     infusion, 372  
     compound, 372  
     jelly, 372  
     mixture, 372  
     pills, 371  
     polygalic acid, 372  
     syrup, 373  
     powder, compound, 371  
     syrup, 372  
 Senna, 373  
     American, 150

- Senna, American, infusion, 151  
     confection, 373  
     compound, 373  
     electuary with cremor tartar, 373  
         figs, 373  
         rhubarb, 373  
         sulphur, 373  
     emulsion, 375  
     extract, alcoholic, 373  
         fluid, 375  
     infusion, 374  
         compound, 374  
         with buckthorn, 375  
         coffee, 374  
         lemon juice, 375  
         rhubarb, 375  
         tamarinds, 374  
         tincture, 375  
     mixture, 375  
     pills, 373  
     powder, compound, 373  
         and guaiacum, 373  
     syrup, 375  
         and apples, 375  
         rhubarb, 375  
     tincture, compound, 374  
         with gentian, 374  
         jalap, 374  
     wine, compound, 374  
 Setons, 471  
 Shampoo liquid, 144  
 Sialagogues, 61  
 Silicate of potassa, 336  
 Silk weed, 116  
 Silver, 110  
     chloride, 110  
         and ammonia, 110  
             pills, 110  
         powder, 110  
     cyanide, 110  
         ointment, 110  
     iodide, 110  
         ointment, 111  
     nitrate, 111  
         collyrium, 111  
         hair dye, 111  
         indelible ink, 111  
         mixture, 111  
         ointment, 112  
             compound, 112  
         pills, 111  
         solution, 111  
             Mackensie's, 111  
     oxide, 111  
         ointment, 111  
 Simaruba, 377  
     infusion, 377  
     compound, 377  
 Sinapisms, 469  
 Skunk cabbage, 193  
     infusion, 193  
     tincture, 193  
 Slippery elm, 403  
     cataplasm, 404  
     infusion, 403  
 Snakeroot, black, 160  
     decoction, 160  
     tincture, 160  
     Virginia, 376  
         electuary, 376  
         infusion, 376  
             compound, 376  
         mixture, with allspice, 376  
             acetated, 376  
             ether, 376  
         pills, compound, 376  
 Snakeroot, Virginia, tincture, 376  
     with balsam Peru, 376  
     wine, with vanilla, 376  
 Sneezewort, 229  
 Soap, 360  
     almond, 360  
     aromatic, 360  
     arsenical, 361  
     balsam, camphorated acetic, 361  
     beef marrow, 360  
     bolus, 361  
     camphorated, 360  
     castile, 360  
     cataplasm, 362  
     clyster, 362  
     cod liver oil, 362  
         ioduretted, 362  
     common, 360  
     electuary, 361  
     essence, 361  
         camphorated, 361  
     grease balls, 361  
     hard, 360  
     iodide of potassium, 323  
     itch ointment, 362  
     jalap, 257  
     pills, 361  
         and ox-gall, 361  
         compound, 361  
         powder, aromatic, 361  
         saponine, 361  
     soft, 360  
     solution, ethereal, 361  
     Spanish, 360  
     Starkey's, 293, 360  
     sulphuret of potassium, 328  
     suppository, 362  
     turpentine, 360  
     with sulphur, 362  
 Soda, 379  
     acetate, 379  
         pills, compound, 379  
     arseniate, 380  
         solution, 380  
     bicarbonate, 381  
         lozenges, 381  
     bisulphate, 385  
         and magnesia, 385  
     borate, 380  
     cakes, 421  
     carbonate, 381  
         dried, 381  
         emulsion, 382  
         injection, 382  
         lotion, 382  
         mixture, anti-emetic, 382  
             with chamomile, 382  
             copaiba, 382  
             gentian, 382  
             ipecacuanha, 382  
             quassia, 382  
         ointment, 382  
         pills, 381  
         powder, with magnesia, 381  
             mercury, 381  
             rhubarb, 381  
         solution, diuretic, 382  
     caustic, 379  
     chlorate of, 383  
         gargle, 383  
         lotion, 383  
     chlorinated, 383  
         gargle, 383  
         solution, 383  
             diluted, 383  
     hydrosulphate of, 383

- Soda, hyposulphite of, syrup, 383  
     phosphate, 384  
     mixture, 384  
     powder, compound, 384  
     pills, with ipecacuanha, 381  
     rhubarb, 381  
     powder, effervescing, 381  
     solution, 379  
     effervescing, 381  
     sulphate, 384  
     clyster, 385  
     electuary, 384  
     emulsion, 384  
     lemonade, 384  
     lotion, 385  
     pills, compound, 384  
     powder, with nitre, 384  
     opium, 384  
     tartar emetic, 384  
     solution, compound, 384  
     suppository, 385  
     tartarized, 385  
     clyster, 385  
     mixture, 385  
     powder, with rhubarb, 385  
     Seidlitz's, 385  
     whey, 385
- Sodium, 378  
     bromide, 378  
     ointment, 378  
     chloride, 378  
     bath, with gelatine, 378  
     clyster, 378  
     and arnica, 379  
     fomentation, 378  
     mixture, with lemon juice, 379  
     ointment, 379  
     compound, 379  
     powder, compound, 378  
     and cochineal, 378  
     chloroplatinate, 313  
     injection, 313  
     sulphuret, 379  
     bath, 379  
     liniment, 379  
     lotion, 379  
     mixture with sal ammoniac, 379  
     ointment, 379
- Soluble glass, 337
- Solution, arsenical, 330  
     Donovan's, 114  
     Fowler's, 330  
     Labarraque's, 383  
     of acetate ammonia, 91  
     barytes, 126  
     mercury, 236  
     morphia, 281  
     alcoholic, 281  
     alum, 89  
     odontalgic, 88  
     arsenate of ammonia, 92  
     soda, 380  
     arsenic, 69  
     ammoniated copper, 187  
     muriate of copper and mercury, 186  
     ammonio-tartrate of iron, 213  
     atropine, 118  
     barytes, 125  
     belladonna, extract, 127  
     bimeconate of morphia, 281  
     bitartrate of potassa, 339  
     compound, 339  
     borotartrate of potassa, 331  
     bromide of mercury, ethereal, 236  
     potassium, 319
- Solution of bromine, 130  
     alcoholic, 130  
     brucia, 131  
     carbonate of potassa, 332  
     soda, 382  
     diuretic, 382  
     effervescing, 381  
     caustic potassa, 328  
     chlorate of barium, 125  
     potassa, 334  
     chloride of calcium, 133  
     gold and sodium, 121  
     soda, 383  
     diluted, 383  
     chlorinated potassa, 320  
     citrate of magnesia, 271  
     potassa, 234  
     corrosive sublimate, 237  
     alcoholic, 237  
     cotton, ethereal, 225  
     creasote, alcoholic, 183  
     croton oil, saponaceous, 294  
     cyanide of gold, 122  
     cyanuret of mercury, 241  
     potassium, 320  
     delphinia, 189  
     ferrocyanide of zinc, 412  
     gamboge, alkaline, 219  
     hydrargyro-iodide of potassium, 325  
     iodide of iron, 207  
     official, 207  
     potassium, 321  
     caustic, 324  
     compound, 324  
     zinc, 413  
     lac, 262  
     magnesia, 270  
     muriate of morphia, 282  
     myrrh, alkaline, 286  
     nitrate of silver, 111  
     nitro-saccharate of lead, 318  
     potassa, 328  
     effervescing, 333  
     lithontriptic, 329  
     persesquinitrate of iron, 209  
     phosphate of ammonia, 96  
     soap, ethereal, 361  
     soda, 379  
     subacetate of lead, 314  
     sulphate of bebeerine, 126  
     cadmium, 133  
     iron, 211  
     morphia, 283  
     soda, compound, 384  
     veratrine, 408  
     zinc, 414  
     sulphuret of potassium, 327  
     tartrate of iron and potassa, 212  
     potassa and ammonia, 339
- Soot, 215  
     cataplasm, 216  
     decoction, 215  
     injection, 216  
     mixture, 216  
     mouth wash, 216  
     oil, 216  
     ointment, 216  
     compound, 216  
     pills, 215  
     tincture, 216
- Southernwood, 114  
     clyster, 114  
     infusion, 114
- Spanish flies, 141
- Spearmint, 277  
     arquebusade water, 278  
     infusion, 278



- Spearmint, infusion, compound, 278  
 Specific gravity, 20  
 Spermaceti, 154  
     — cerate, 155  
     — liniment, 155  
     — lip salve, 155  
     — mixture, 155  
     — ointment, 155  
     — and rosewater, 155  
     — sultana, 155  
     — powder, compound, 155  
 Spirits, 461  
 Spirit of acetic ether, 79  
     — allspice, 309  
     — ammonia, and succinic acid, 86  
         — fetid, 91  
     — aniseed, 103  
     — balm, compound, 277  
     — caraway, 149  
     — castor, compound, 151  
     — cloves, 149  
     — horseradish, compound, 112  
     — juniper, compound, 258  
     — lavender, 264  
         — compound, 265  
     — lemon, 266  
         — odoriferous, 266  
     — muriatic ether, 80  
     — nutmeg, 285  
         — compound, 285  
     — orange peel, 119  
     — rosemary, 354  
     — succinated ammonia, 96  
     — sulphuric ether, 80  
     — sweet of nitre, 79  
     — vanilla, 407  
     — vinegar, aromatic, 68  
     — wormwood, compound, 65  
 Sponge, 387  
     — burnt, 387  
         — bolus, 387  
         — electuary, 387  
         — powder, 387  
             — compound, 387  
 Sponging, 467  
 Spruce beer, 420  
 Spurge, 198  
 Squill, 367  
     — electuary, 370  
     — emulsion, 370  
     — extract, 370  
         — and rhubarb, 369  
     — ointment, 370  
         — compound, 370  
     — oxymel, 370  
         — mixture, with ammonia, 370  
             — ipecacuanha, 370  
             — marsh mallow, 370  
     — pills and ammoniac, 367  
         — calomel, 367  
         — croton oil, 367  
         — henbane, 368  
         — ipecacuanha, 367  
         — compound, 368  
     — powder with calomel, 367  
         — cremor tartar, 367  
         — ipecacuanha, 367  
         — nitre, 367  
         — sulphur, 367  
         — compound, 367  
     — syrup, 370  
         — aromatic, 371  
         — compound, 368  
         — mixture, 369  
         — tincture, 369  
             — alkaline, 369  
             — and elaterium, 369  
     — Squill, tincture, and benzoin, compound, 369  
         — ethereal, 369  
         — vinegar, 370  
             — mixture, 370  
                 — and ammonia, 370  
         — wine, 368  
             — compound, 369  
             — bitter, 369  
 Star grass, 81  
     — tincture, 81  
 Starch, 101  
     — iodide, 102  
     — jelly, 102  
     — lozenges, 102  
     — mixture, with suet, 102  
     — mucilage, 101  
         — powder, compound, 101  
 Starkey's soap, 273, 360  
 Stavesacre, 388  
     — decoction, 388  
     — ointment, 388  
     — vinegar, 388  
 Stimulants, 62  
 Storax, 389  
     — pills, compound, 389  
     — purified, 389  
     — syrup, 389  
 Stramonium, 388  
     — extract of leaves, 388  
         — seeds, 388  
     — lotion, 388  
     — mixture, 388  
     — ointment, 389  
     — pills, 388  
         — compound, 388  
     — syrup, 389  
     — tincture of leaves, 389  
         — seeds, 389  
         — ethereal, 389  
     — wine, 389  
 Strychnine, 389  
     — acetate, 390  
         — solution, 390  
         — tincture, 391  
     — collyrium, 390  
     — iodate, 391  
     — liniment, 390  
     — mixture, 390  
     — muriate, 390  
     — nitrate, 391  
         — ointment, 391  
     — ointment, 390  
     — pills, 390  
         — stimulant, 390  
     — powder, compound, 390  
     — sulphate, 391  
     — tincture, 390  
 Styptic of sulphate of copper, 188  
 Stuping, 468  
 Subacetate of copper, 185  
     — lead, 314  
 Subcarbonate of iron, 202  
 Subnitrate of bismuth, 129  
 Succinate of ammonia, 96  
 Succory, 160  
     — extract, 160  
     — infusion, 160  
     — syrup, compound, 160  
 Sugar, 357  
     — barley, 231  
     — burnt, 357  
     — milk, 261  
     — syrup, 357  
     — vanilla, 407  
 Sulphate of alumina, 87  
     — and potassa, 87  
     — ammonia, 97

- Sulphate of antimony, 107  
 — brucia, 131  
 — cinchonia, 166  
 — copper, 187  
 — indigo, 250  
 — iron, 210  
 — magnesia, 271  
 — manganese, 273  
 — morphia, 282  
 — potassa, 337  
 — and ammonia, 337  
 — magnesia, 337  
 — sulphur, 338  
 — quinine, 344  
 — soda, 384  
 — zinc, 414  
 Sulpho-cyanuret of potassium, 326  
 — tartrate of quinia, 347  
 Sulphur, 392  
 — balsam, 394  
 — ethereal, 394  
 — terebinthinated, 394  
 — cerate, 394  
 — electuary, 393  
 — compound, 393  
 — iodide, 395  
 — ointment, 395  
 — powder, 395  
 — linctus, 393  
 — liniment, with soap, 394  
 — mixture, 394  
 — ointment, 394  
 — compound, 394  
 — with camphor, 394  
 — soap, 394  
 — zinc, 394  
 — powder, compound, 393  
 — with antimony, 393  
 — camphor, 392  
 — cremor tartar, 393  
 — liquorice, 393  
 — magnesia, 393  
 — orris root, 393  
 — precipitated, 392  
 — sublimed, 392  
 — washed, 392  
 Sulphuret of antimony, 105  
 — arsenic, 114  
 — barium, 125  
 — calcium, 135  
 — carbon, 395  
 — iron, 212  
 — magnesia, 272  
 — mercury, black, 246  
 — red, 246  
 — potassium, 326  
 — soda, 379  
 Sulphuretted water, artificial, 73  
 Sulphuric acid, 75  
 — and alcohol, 76  
 — nitric ether, 76  
 — dilute, 75  
 — lemonade, 76  
 — liniment, 76  
 — ointment, 76  
 — ether, 80  
 — ethereal oil, 80  
 — Hoffmann's anodyne, 80  
 — lotion, 80  
 — mixture, with camphor, 81  
 — turpentine, 81  
 — rectified, 80  
 — spirit, 80  
 — syrup, 81  
 Suppositories, 56  
 Suppository, anthelmintic, 84  
 — charcoal, 146  
 Suppository, hemlock, 176  
 — opium, 299  
 — rhubarb, 349  
 — soap, 362  
 — zinc, chloride of, 411  
 Swamp dogwood, 180  
 Sweet almonds, 98  
 — fern, 174  
 — spirit of nitre, 79  
 — violet, 409  
 Sydenham's laudanum, 301  
 Syrups, 450  
 Syrup, 357  
 — acetate of morphia, 281  
 — antimonial wine, 109  
 — asparagus shoots, 116  
 — balsam of Peru, 285  
 — tolu, 401  
 — belladonna, 127  
 — Gillet's, 127  
 — biniodide of potassium, 324  
 — bittersweet, 194  
 — blackberry, 355  
 — brooklime, 126  
 — cadmium, 148  
 — capillaire, 79  
 — chamomile, 104  
 — chloride of gold and sodium, 121  
 — compound, 122  
 — iron, 204  
 — cinchonia, 167  
 — citrate of iron, 205  
 — citric acid, 71  
 — clove pink, 190  
 — cod liver oil, 290  
 — codeia, 169  
 — coffee, 170  
 — colchicum, 171  
 — coltsfoot, 403  
 — cubebs, alcoholic ethereal extract, 184  
 — cyanuret of potassium, 320  
 — emetine, 196  
 — ergot, 196  
 — galls, 218  
 — garlic, 81  
 — gentian, 221  
 — extract, 221  
 — gentianin, 222  
 — ginger, 415  
 — ethereal extract, 416  
 — gold, 120  
 — gum, 66  
 — compound, 66  
 — hive, 368  
 — horchound, 274  
 — hydrocyanic acid, 72  
 — hyposulphite of soda, 383  
 — hyposulphited sulphuret of potassium, 327  
 — Indian sarsaparilla, 230  
 — iodate of potassa, 335  
 — iodide and chloride of iron, 208  
 — of iron, 207  
 — potassium, 322  
 — zinc, 413  
 — ipecacuanha, 254  
 — compound, 254  
 — kino, 259  
 — lactate of iron, 208  
 — quinine, 344  
 — lactucarium, 263  
 — lemon, 266  
 — peel, 266  
 — vinous, 266  
 — lettuce, 263  
 — liquorice, 224  
 — lobelia, 268  
 — lupuline, 268

- Syrup, maidenhair, 79  
 ————— compound, 79  
 ————— manna, 273  
 ————— marsh mallow, 86  
 ————— matico, 275  
 ————— milk, 261  
 ————— monesia, 279  
 ————— compound, 279  
 ————— mulberries, 280  
 ————— muriate of morphia, 282  
 ————— compound, 282  
 ————— naphthaline, 287  
 ————— opium, 299  
 ————— succinated, 299  
 ————— orange flowers, 120  
 ————— peel, 119  
 ————— orgeat, 99  
 ————— paullinia, 307  
 ————— pectoral, 306  
 ————— Peruvian bark, 166  
 ————— pipsissewa, 158  
 ————— poppy heads, 306  
 ————— proto-iodide of iron, 207  
 ————— red roses, 353  
 ————— rhatany, 260  
 ————— rhubarb, 350  
 ————— and senna, 350  
 ————— aromatic, 350  
 ————— rue, 355  
 ————— saffron, 183  
 ————— sarsaparilla, 364  
 ————— compound, 364  
 ————— Gesnoui's, 365  
 ————— Laffecteur's, 364  
 ————— seneka, 372  
 ————— senna, 375  
 ————— and apples, 375  
 ————— rhubarb, 375  
 ————— squill, 370  
 ————— aromatic, 371  
 ————— compound, 368  
 ————— storax, 389  
 ————— stramonium, 389  
 ————— succory, compound, 160  
 ————— sulphate of iron, 212  
 ————— morphia, 283  
 ————— quinine, 346  
 ————— and coffee, 346  
 ————— sulphuret of magnesia, 272  
 ————— potassium, 327  
 ————— compound, 327  
 ————— sulphuretted, 95  
 ————— sulphuric ether, 81  
 ————— thridace, 262  
 ————— uva ursi, 404  
 ————— valerian, 405  
 ————— vinegar, 67  
 ————— violets, 409  
 ————— wild cherry bark, 340  
 ————— wormwood, 65
- Table of avoirdupois weights, 10  
 ————— distilled oils, 458  
 ————— drops and minims, 18  
 ————— foreign weights, 14  
 ————— hydrometrical equivalents, 28  
 ————— incompatibles, 422  
 ————— pharmaceutical names, 433  
 ————— posological, 426  
 ————— sp. grs. and Baumé's hydrometer, 25  
 ————— of preparations, 31
- Tamarinds, 397  
 ————— electuary, 397  
 ————— infusion, 397  
 ————— pulp, 397  
 ————— whey, 397
- Tannate of lead, 318  
 ————— of quinine, 347  
 ————— Tannic acid, 76  
 ————— gargle, 76  
 ————— injection, 76  
 ————— mixture, 76  
 ————— ointment, 76  
 ————— pills, 76  
 ————— and opium, 76
- Tansy, 397  
 ————— extract, 397  
 ————— infusion, 297  
 ————— oil, 397  
 ————— pills, 397  
 ————— tincture, compound, 397
- Tapioca, 397  
 ————— jelly, 397  
 ————— pudding, 397
- Tar, 312  
 ————— ointment of, 312  
 ————— compound, 312  
 ————— pills, 312  
 ————— water, 312
- Tartaric acid, 77  
 ————— lemonade, 77  
 ————— lozenges, 77
- Tartar emetic, 107  
 ————— bolus, 107  
 ————— clyster, 108  
 ————— emulsion, 108  
 ————— liniment, with ammonia, 108  
 ————— lotion, 108  
 ————— and camphor, 108  
 ————— corrosive sublimate, 108  
 ————— ointment, 108  
 ————— compound, 108  
 ————— pills and camphor, 107  
 ————— guaiacum, 107  
 ————— opium, 107  
 ————— plaster, 108  
 ————— powder, 107  
 ————— and ipecacuanha, 107  
 ————— phosphate of lime, 107  
 ————— quinine, 107  
 ————— compound, 107  
 ————— solution, 108  
 ————— and squill, 108  
 ————— wine, 108  
 ————— collyrium, 108  
 ————— mixture, with ammonia, 109  
 ————— bitter sweet, 109  
 ————— laudanum, 109  
 ————— syrup, 109
- Tartarized soda, 385  
 ————— Tartrate of antimony and potassa, 107  
 ————— iron and potassa, 212  
 ————— mercury and potassa, 247  
 ————— potassa, 338  
 ————— and ammonia, 339  
 ————— quinine, 347  
 ————— soda and potassa, 385
- Tea, beef, 418  
 ————— bran, 419  
 ————— mutton, 418  
 ————— veal, 418
- Temperatures in pharmaceutical operations, 28  
 Tepid bath, 463  
 Thermometrical scales, 32  
 Thridace, 262  
 Tin, 387  
 ————— chloride, 387  
 ————— electuary, 387  
 ————— ointment, 387  
 ————— oxide, 388  
 ————— powder, 387

Tin, sulphuret, 387  
     powder, compound, 388  
 Tinctures, 451  
 Tincture, acetate of iron, 200  
     alcoholic, 200  
     etheral, 200  
     morphia, 330  
     potassa, 391  
     zinc, 413  
     aconite, 78  
         root, 78  
     aloes, 85  
         and myrrh, 85  
     allspice, 309  
     amber, 392  
         alkaline, 392  
         etheral, 392  
     American centaury, 356  
         columbo, 215  
         hellebore, 409  
     ammonia, compound, 93  
     ammoniated iron, 201  
     angelica, 103  
         compound, 102  
     angustura, 102  
     aniseed, 104  
     antacid, 238  
     arnica, 113  
     assafetida, 117  
         alkaline, 117  
         ammoniated, 118  
         and castor, 118  
         soot, 118  
     balsam of Peru, 285  
         tolu, 400  
         compound, 400  
         with foxglove, 401  
     belladonna, 127  
         etheral, 128  
     benzoin, 129  
         compound, 129  
     black hellebore, 230  
         snakeroot, 160  
     bloodroot, 360  
     brucia, 131  
     buchu, 192  
     calamus, 133  
         compound, 133  
     camphor, 139  
         and saffron, 139  
         etheral, 139  
     cantharides, 142  
         and guaiacum, 142  
         camphorated, 142  
         etheral, 143  
         compound, 142  
         etheral, 143  
     carbonate of potassa, 332  
         compound, 333  
     cardamom, 147  
         compound, 148  
     cascarilla, 150  
     castor, 151  
         ammoniated, 151  
         compound, 151  
         etheral, 151  
     catechu, 153  
     Cayenne pepper, 145  
         and cantharides, 145  
     cevadilla, 355  
     chiretta, 158  
     chloride of gold, 121  
         iron, 204  
         etheral, 204  
         zinc, etheral, 411  
     cinchonia, 167  
     cinnamon, 167

Tincture, cinnamon, compound, 168  
     etheral, 168  
     cochineal, 169  
     colchicum flowers, 171  
     seeds, 170  
     compound, 171  
     colocynth, 173  
     columbo, 174  
     contrayerva, 177  
         compound, 177  
     copaiba, 179  
         alkaline, 179  
         compound, 179  
     coriander, 180  
     Croton oil, 294  
     cubeb, 184  
     cyanuret mercury, compound, 242  
     Dippel's oil, 289  
     elaterin, 195  
     ergot, 196  
     foxglove, 191  
         etheral, 191  
     galbanum, 217  
         compound, 217  
     galls, 218  
     gamboge, alkaline, 219  
         ammoniacal, 220  
     gentian, 221  
         acidulated, 221  
         alkaline, 221  
         ammoniacal, 221  
         compound, 221  
     gentianine, 222  
     ginger, etheral extract, 416  
     goldthread, 179  
     guaiacum, 227  
         ammoniated, 228  
     hemlock, 175  
         etheral, 175  
     hemp, 141  
     henbane, 249  
         etheral, 249  
     hops, 232  
         alkaline, 232  
     horse balm, 172  
     hydrargyro-iodide of potassium, 325  
     iodide of iron, 207  
         potassium, compound, 324  
     iodine, 251  
         compound, 251  
         etheral, 251  
         saturated, 251  
     jalap, 257  
         compound, 257  
     Jamaica dogwood, 311  
     kino, 259  
     lactucarium, 263  
     larkspur seeds, 189  
     lavender, etheral, 265  
     lettuce, aromatic, 263  
     lobelia, 268  
         etheral, 268  
     lupuline, 268  
     mace, 269  
     magnolia, 272  
     malate of iron, 209  
     male fern buds, 214  
     mastic, etheral, 275  
     matico, 275  
     monesia, 279  
     musk, 284  
         artificial, 391  
     myrrh, 287  
         and hellebore, 287  
     nux vomica, 288  
         compound, 288  
     opium, 301



- Tincture, opium, acetated, 301  
     ammoniated, 302  
     and asarabacca, 302  
         soap, 302  
     Bateman's, 302  
     camphorated, 302  
     compound, 302  
     Smith's, 302  
     succinated, 302  
     Swediaur's, 302  
     Warner's, 303  
     opoponax, 304  
         compound, 304  
     orange peel, 119  
     pareira brava, 307  
     pellitory, 340  
         compound, 340  
     Peruvian bark, 164  
         and ammonia, 165  
         cantharides, 165  
         gentian, 165  
         snakeroot, 165  
         valerian, 164  
         compound, 164  
     phosphoric, of myrrh, 75  
     piperine, 311  
     poison oak, 402  
     proto-iodide of iron, 207  
     quassia, 341  
         compound, 341  
     quinine, 342  
         impure, 342  
     red iodide mercury, 243  
         ethereal, 243  
     rhatany, 260  
     rhubarb, 350  
         and aloes, 350  
         aniseed, 351  
         gentian, 350  
         senna, 350  
         alkaline, 351  
     rosemary, 354  
     roses, 353  
     ruc, 355  
     saffron, 183  
         compound, 183  
     sassafras, 365  
         compound, 365  
     savine, 357  
         compound, 357  
     senna, and jalap, 374  
         gentian, 374  
         compound, 374  
     skunk cabbage root, 193  
         seed, 193  
     snakeroot, black, 160  
         Virginian, 376  
         and balsam Peru, 376  
     soot, 216  
     squill, 369  
         alkaline, 369  
         and benzoin, 369  
         elaterium, 369  
         ethereal, 369  
     stargrass, 81  
     stramonium ethereal, 389  
         leaves, 389  
         seeds, 389  
     strychnine, 390  
     sulphate of quinine, 346  
         compound, 346  
     sulphuret of potassium, 327  
     tansy, compound, 397  
     tartrate of iron, compound, 213  
     tobacco, 396  
     tulip tree bark, 267  
     Tincture, valerian, 405  
         ammoniated, 405  
         compound, 405  
         vanilla, 407  
         veratrine, 408  
         white hellebore, 408  
         winter's bark, 410  
         wormwood, 65  
         alkaline, 65  
     Toast water, 418  
     Tobacco, 395  
         cataplasm, 396  
         extract, 396  
         infusion, 396  
         lotion, 396  
         mixture, 396  
         nicotina, 396  
         oil, 396  
         ointment, 396  
         pills, 396  
         powder, compound, 396  
         tincture, 396  
         wine, 396  
     Tolu, balsam of, 400  
     Tonics, 62  
     Tormentil, 401  
         decoction, 402  
         extract, 401  
         gargle, 402  
         powder, compound, 401  
     Tous les mois, 417  
     Tragacanth, 402  
         mucilage, 402  
         paste, 402  
         powder, compound, 402  
     Troches, 462  
     Tulip tree bark, 267  
         infusion, 267  
         tincture, 267  
     Turlington's balsam, 129  
     Turpentine, 399  
         clyster, 399  
         electuary, 399  
         liniment, 399  
         mixture, 400  
         oil, 292  
         ointment, 399  
         compound, 399  
         pills, 399  
         with guaiacum, 399  
         jalap, 399  
         magnesia, 399  
         myrrh, 399  
         rhubarb, 399  
         plaster, 399  
         compound, 400  
     Uva ursi, 404  
         decoction, 404  
         extract, 404  
         mixture, 404  
         powder, compound, 404  
         syrup, 404  
     Valerian, 404  
         bolus, with iron, 405  
         sulphate of potassa, 405  
         electuary, 405  
         extract, 406  
         fluid, 406  
         infusion, 405  
         compound, 405  
         mixture, with ammonia, 405  
         Hoffmann's anodyne, 406  
         oil, 406  
         with ammonia, 406

- Valerian, pills, compound, 405  
 ——— powder, compound, 404  
 ——— syrup, 405  
 ——— tincture, 405  
 ——— ammoniated, 405  
 ——— compound, 405  
 ——— compound, 405  
 ——— with Hoffmann's anodyne, 406  
 ——— wine, 405  
 Valerianate of quinine, 347  
 ——— zinc, 415  
 Valerianic acid, 77, 406  
 Vanilla, 406  
 ——— arrowroot, 407  
 ——— essence, 407  
 ——— extract, fluid, 407  
 ——— lozenges, 407  
 ——— milk, 407  
 ——— spirit, 407  
 ——— sugar, 407  
 ——— tincture, 407  
 Vapor bath, 465  
 Varnish, crystal, 275  
 ——— picture, 275  
 Veal tea, 418  
 Vegetable broth, 417  
 Venesection, 474  
 Ventilation of sick room, 45  
 Veratrin, 407  
 ——— liniment, 408  
 ——— lotion, 408  
 ——— muriate, 408  
 ——— nitrate, 408  
 ——— ointment, 408  
 ——— with iodine, 408  
 ——— opium, 408  
 ——— pills, 407  
 ——— with henbane, 408  
 ——— sulphate, 408  
 ——— solution, 408  
 ——— tincture, 408  
 Verdigris, 185  
 Vesicatories, 470  
 Vinegar, 67  
 ——— aromatic, 68  
 ——— spirit, 68  
 ——— borax, 380  
 ——— cantharides, 142  
 ——— cataplasm, 67  
 ——— Cayenne pepper, 145  
 ——— cinnamon, compound, 167  
 ——— coffee, 176  
 ——— colchicum root, 171  
 ——— seeds, 171  
 ——— distilled, 68  
 ——— elder flowers, 359  
 ——— four thieves, 68  
 ——— gargle, 67  
 ——— lobelia, 268  
 ——— mixture, 67  
 ——— and cardamom, 67  
 ——— opium, 300  
 ——— pastilles, 67  
 ——— prophylactic, 68  
 ——— rosemary, aromatic, 353  
 ——— roses, compound, 353  
 ——— sage, 359  
 ——— squill, 370  
 ——— syrup, 67  
 ——— stavesacre, 388  
 Vinegars, 454  
 Violet, sweet, 409  
 ——— conserve, 409  
 ——— honey, 409  
 ——— oil, 409  
 Vocabulary of words used in prescriptions, 34  
 Volatile oils, 456  
 Walnut, white, 257  
 Warm bath, 463  
 Warner's cordial, 317  
 Wash, black, 244  
 ——— cosmetic, 129, 238  
 ——— detergent, 87  
 ——— ophthalmic, 185  
 ——— sal ammoniac, 96  
 ——— yellow, 238  
 Water, allspice, 309  
 ——— ammonia, 90  
 ——— anemone, 102  
 ——— angelica, 103  
 ——— anti-hysteria, 377  
 ——— apple, 418  
 ——— arquebusade, 278  
 ——— avens, 227  
 ——— barley, with nitrate potassa, 232  
 ——— bitter almonds, 100  
 ——— brooklime, 126  
 ——— camphor, 139  
 ——— and laudanum, 139  
 ——— nitric acid, 139  
 ——— Hoffmann's anodyne, 139  
 ——— caraway, 148  
 ——— chalybeate, artificial, 203  
 ——— cherry laurel, 264  
 ——— chlorine, 158  
 ——— cinnamon, 168  
 ——— compound, 168  
 ——— citrate of magnesia, 271  
 ——— clove, 149  
 ——— Cologne, 266  
 ——— coriander, compound, 180  
 ——— distilled, 455  
 ——— diuretic, 100  
 ——— elder flower, 359  
 ——— fennel, 215  
 ——— Goulard's vegeto-mineral, 315  
 ——— honey, 276  
 ——— Hungary, 354  
 ——— ioduretted, 323  
 ——— lavender, 264  
 ——— lemon peel, 266, 419  
 ——— lettuce, 263  
 ——— lime, 135  
 ——— and carbonate of potassa, 135  
 ——— milk, 135  
 ——— compound, 135  
 ——— medicated, 455  
 ——— opium, 300  
 ——— orange flower, 120  
 ——— partridge berry, 220  
 ——— rice, 304  
 ——— rose, 352  
 ——— Seidlitz, 271  
 ——— souchy, 419  
 ——— sulphuret of potassium, 327  
 ——— sulphuretted, artificial, 73  
 ——— tar, 312  
 ——— toast, 418  
 ——— unparalleled, 267  
 Weights and measures, 9  
 ——— apothecaries, 12  
 ——— avoirdupois, 9  
 ——— foreign, 12  
 ——— French, 12  
 ——— metrical, 12  
 ——— Troy, 9  
 Whey, 260  
 ——— alum, 89, 260  
 ——— aromatic, 89, 261  
 ——— cremor tartar, 260  
 ——— mustard, 261, 377  
 ——— tamarind, 260, 397  
 ——— tartarized soda, 385  
 ——— vinegar, 260

- Whey, wine, 261  
 White hellebore, 408  
     — decoction, 408  
     — ointment, 409  
     — compound, 409  
     — powder, 408  
     — tincture, 408  
     — wine, 408  
     — precipitate, 236  
     — walnut, 257  
 Wikana, 132  
 Wild cherry bark, 340  
     — infusion, 340  
     — syrup, 340  
     — ginger, 115  
     — infusion, 115  
     — ipecacuanha, 198  
     — powder, compound, 198  
     — potato, 177  
 Wilkinson's liniment, 95  
 Willow bark, 358  
     — decoction, 358  
     — dentifrice, 358  
     — ointment, 358  
     — powder, compound, 358  
 Wine of aconite, compound, 78  
     — aloes, 85  
     — alkaline, 85  
     — balsamic, 85  
     — American hellebore, 409  
     — black hellebore, 230  
     — blessed thistle, 154  
     — bryony, 131  
     — centaury, compound, 154  
     — cinchonia, 167  
     — cinnamon, compound, 167  
     — citrate of iron, 205  
     — aromatic, 205  
     — cloves, 149  
     — colchicum root, 170  
     — seeds, 170  
     — compound, 171  
     — dogwood, round-leaved, 181  
     — ergot, 196  
     — gentian, 221  
     — iodide of iron, 207  
     — ipecacuanha, 255  
     — alkaline, 255  
     — and tartar emetic, 255  
     — compound, 255  
     — iron, 203  
     — opium, 301  
     — Sydenham's, 301  
     — Peruvian bark, 166  
     — persimmons, 193  
     — and calamus, 166  
     — iron, 166  
     — quassia, 341  
     — rhubarb, 351  
     — and gentian, 351  
     — compound, 351  
     — roses, 353  
     — senna, compound, 374  
     — squill, 368  
     — bitter, 369  
     — compound, 369  
     — stramonium, 389  
     — sulphate of quinine, 346  
     — aromatic, 346  
     — tartrate of iron, 212  
     — compound, 212  
     — tobacco, 396  
     — valerian, 405  
     — Virginia snakeroot, 376  
     — white hellebore, 408  
     — wormwood, 65  
     — yellow ladies' bedstraw, 218  
 Wine antimonal, 108  
     — diuretic, 293  
     — mulled, 419  
     — whey, 261  
 Wines, 453  
 Winter's bark, 410  
     — tincture, 410  
 Wistar's cough lozenges, 304  
 Witch hazel, 209  
 Wolfsbane, 112  
     — decoction, 113  
     — extract, 113  
     — fomentation, 113  
     — infusion, 113  
     — compound, 113  
     — powder, compound, 112  
     — tincture, 113  
 Wood sorrel, 67  
     — extract of, 67  
 Wormseed, 157  
     — decoction, 157  
     — oil, 157  
     — mixture, 157  
 Wormwood, 65  
     — clyster, 65  
     — essential oil, 65  
     — infusion, 65  
     — oil, 65  
     — ratafia, 66  
     — syrup, 65  
     — tincture, 65  
     — alkaline, 65  
     — wine, 65  
 Yellow ladies' bedstraw, 218  
     — root, 248  
     — sulphate of mercury, 245  
 Zinc, 410  
     — acetate, 413  
     — collyrium, 413  
     — injection, 413  
     — lotion, 413  
     — tincture, 413  
     — carbonate, 413  
     — cerate, 413  
     — plaster, 414  
     — precipitated, 413  
     — prepared, 413  
     — chloride, 411  
     — disinfectant, 411  
     — injection, 411  
     — lotion, 411  
     — paste, 411  
     — suppository, 411  
     — tincture, ethereal, 411  
     — cyanide, 412  
     — pills, 412  
     — powder, 412  
     — ferrocyanide, 412  
     — mixture, 412  
     — pills, compound, 412  
     — powder, 412  
     — solution, 412  
     — iodide, 412  
     — collyrium, 413  
     — ointment, 413  
     — solution, 413  
     — syrup, 413  
     — oxide, 410  
     — cerate, with lycopodium, 411  
     — lotion, 411  
     — ointment, 411  
     — with calomel, 411  
     — opium, 411  
     — pills, 410  
     — compound, 410

Zinc, oxide, powder, 410  
\_\_\_\_\_ compound, 410  
\_\_\_\_\_ with colomba, 410  
\_\_\_\_\_ sulphate, 413  
\_\_\_\_\_ collyrium, 414  
\_\_\_\_\_ with camphor, 414  
\_\_\_\_\_ fomentation, 414  
\_\_\_\_\_ gargle, 414  
\_\_\_\_\_ injection, 414  
\_\_\_\_\_ lotion, 414

Zinc, sulphate mixture, 415  
\_\_\_\_\_ pills, 414  
\_\_\_\_\_ compound, 414  
\_\_\_\_\_ with turpentine, 414  
\_\_\_\_\_ myrrh, 414  
\_\_\_\_\_ solution, 414  
\_\_\_\_\_ valerianate, 413, 415  
\_\_\_\_\_ mixture, 415  
\_\_\_\_\_ pills, 415

THE END.





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# CONTENTS OF THE AMERICAN JOURNAL OF THE MEDICAL SCIENCES. April, 1849. ORIGINAL COMMUNICATIONS.

MEMOIRS AND CASES. pp. 277-410.

Art. I. Leidy on the Intimate Structure and History of the Articular Cartilages. (With two plates.) II. Jackson's Observations on Hydrophobia, with cases, in one of which chloroform was administered with a favorable result. III. Meigs' History of Five Cases of Pseudo-membranous Laryngitis or true Croup; in three of which the Operation of Tracheotomy was performed, and in two successfully. IV. Parkman's Extracts from the Records of the Boston Society for Medical Improvement. V. Sargent's Report of the Cases of Small-Pox received into the Philadelphia City Hospital in 1845-6. VI. Peaslee's Case of Ovarian Dropsy. VII. Warren on the Effects of Chloroform as a Narcotic Agent. VIII. Bond's Cases of Retroversion of the Uterus, with a description of a New Instrument for its Restoration. (With two wood-cuts.) IX. Ruschenberger's Cases of Extraction of a glass goblet from the Rectum—Fracture of the Penis. (With a wood-cut.)

REVIEWS. pp. 411-441.

X. Obstetrics, the Science and the Art. By C. D. Meigs, M. D. With 121 cuts, 8vo. pp. 685. XI. Reports on Lunacy.

BIBLIOGRAPHICAL NOTICES. pp. 442-464.

XII. Ames on Epidemic Meningitis. XIII. Manley's Anniversary Discourse. XIV. Stevens's Plea of Humanity in Behalf of Medical Education. XV. Kirkes and Paget's Manual of Physiology. XVI. Bowman's Introduction to Practical Chemistry, including Analysis. XVII. Morfit and Muckle's Chemical and Pharmaceutical Manipulations. XVIII. New York Report on the subject of Asiatic Cholera. XIX. Philadelphia Report on Public Hygiene. XX. Summary of the Transactions of the College of Physicians of Philadelphia, from September 16, 1848, to January 2, 1849, inclusive.

## QUARTERLY SUMMARY OF THE IMPROVEMENTS AND DISCOVERIES IN THE MEDICAL SCIENCES. FOREIGN INTELLIGENCE.

ANATOMY AND PHYSIOLOGY. pp. 465-467.

1. Paget on the Blood Corpuscles of the Human Embryo. 2. Schiff on the Changes in the Lungs after Division of the Pneumogastric Nerves. 3. Hamernik on the Mechanism of the Heart.

ORGANIC CHEMISTRY. pp. 467-470.

4. Lehmann on the Nature of the Gastric Juice. 5. Wohler and Frerichs on the Changes of Organic Substances on their passage into the Urine. 6. Regnault and Reiset on the Chemical Changes of Respiration. 7. Dr. Bernard on the Source of Sugar in the Animal Economy.

MATERIA MEDICA AND PHARMACY. pp. 470-476.

8. Pereira on Cod-Liver Oil. 9. Bouchardat and Stuart-Cooper on the Physiological and Therapeutic Action of Atropia. 10. Chavannes on the advantages of Chloride of Gold as a Caustic. 11. Milton on the Nutritive Properties of Bran. 12. Donovan on Vegetable Infusions.

MEDICAL PATHOLOGY AND THERAPEUTICS AND PRACTICAL MEDICINE. pp. 476-499.

13. Dr. Mombert's Case of Hydrophobia Spontanea. 14. Valleix on Muscular Rheumatism. 15. Solon on Bilious Pneumonia. 16. Rilliet on Melena Neonatorum. 17. Elam on Chorea. 18. Schneider on Sanguineous Perspiration. 19. Dr. Pickford's Case in which the Physical Signs of the position of the Heart were deceptive. 20. Jaksch on the Signs of Diseased Heart afforded to the hand laid over the Præcordium. 21. Bellingham on Polyform Concretions in the Cavities of the Heart. 22. O'Errel on Plenritis simulating Pericarditis. 23. Greene on Encysted Tubercles in the Lungs. 24. Mayne on Phthisis in the Infant. 25. M. Levy on Acute Tubercular Meningitis in the Adult. 26. Patterson's Case of Variola in which the Eruption was found in the Mucous Membrane of the Colon. 27. Watson on Intra-Uterine Small-Pox. 28. Gamberini on Nocturnal Neuralgia of the Forearm. 29. Bennet on Spontaneous cure of Ovarian Dropsy, by means of an Ulcerative Opening of the Cyst into the Bladder. 30. Delasiauve on the Treatment of Epilepsy. 31. Melsens on Iodide of Potassium in Saturnine Affections. 32. Wlidge on the external use of Iodine in Croup. 33. Koreff on Spigelia Marylandica in Pruritus Ani. 34. Queen Reese on Lemon Juice in Rheumatic Gout. 35. Nevins on the employment of Nux Vomica in the Diarrhoea of Exhaustion. 36. Dr. Pickford on the Beneficial Effects of Coffee in Infantile Cholera. 37. Palsy of the Tongue cured by galvanopuncture. 38. Manzolini and Quaglini on the Injection of various substances into the Veins.

SURGICAL PATHOLOGY AND THERAPEUTICS AND OPERATIVE SURGERY. pp. 499-503.

39. Guthrie on Hospital Gangrene. 40. Toynbee's Pathological Researches into the Diseases of the Ear. 41. Tilt on Ovarian Dropsy. 42. Hancock on Aneurism of the Axillary Artery. 43. Cooper on Ligation of Subclavian followed by incessant Cough. 44. Willis on Lingual Aneurism—Ligation of the left external Iliac Artery. 45. Tufnell on Femoral Aneurism—Compression tried without success—Amputation. 46. Blandin on Wound of the Right Kidney successfully treated. 47. Senell on Lateral Transfixure of the Chest by a Scythe Blade, followed by complete recovery. 48. Neuhold and Hasserbronn on the Employment of Gun of Lead in Strangulated Hernia. 49. Vidal's New Method of Treating Urethral Pains following Gonorrhœa. 50. Thelenot and Boyer on Luxation of the Astragalus inwards; Reduction. 51. Mendoza on Vertical Dislocation of the Patella. 52. Greenhow on Excision of the Os Calcis. 53. Syme on Excision of the head of the Femur in Morbus Coxarius. 54. Christophers' new mode of removing Nævi.

OPHTHALMOLOGY. pp. 503-509.

55. Mackenzie's Case of Cysticercus Cellulosa in the Human Eye. 56. Dixon's Case of Foreign Body in the Eye.

MIDWIFERY. pp. 509-517.

57. Routh on the Causes of the Endemic Puerperal Fever of Vienna. 58. Burdon on the Influence of the Mother's Imagination upon the Production of Monstrous Children. 59. Mitchell on Ulceration of the Os and Cervix Uteri treated with Solution of Gum-Cotton. 60. Webster on the Statistics, Pathology, and Treatment of Puerperal Insanity. 61. In what cases (other than of Contracted Pelvis) is it proper to induce abortion or Premature Labor. By Dubois. 62. Searzoni on the Cause of Hemorrhage in the latter months of Pregnancy in Cases of Placenta Prævia. 63. Ducrest on Cerebral and Meningeal Phlebitis in Puerperal Women.

CHOLERA. pp. 517-524.

64. Taylor on the Chemical Examination of the Liquid Vomited during Cholera. 65. Boehm on the Microscopic Examinations of the Mucous Membrane of the Stomach and Bowels in Cholera. 66. Lamprey on Terchloride of Carbon as a Remedy for Cholera. 67. Little on Quinine in Cholera. 68. Robertson on Blood-Letting in Cholera. 69. Robertson on the Injection of Saline Solution into the Veins in Cholera. 70. Frettenbacher's Conclusion respecting the mode of Propagation of Cholera in Russia, in 1847-48.

ANÆSTHETIC AGENTS. pp. 524-530.

71. Maligne on the Action of Chloroform. 72. Deaths from Chloroform. 73. Nunnely on the Chloride of Olefant Gas as an Anæsthetic. 74. Simpson on Naphtha as an Anæsthetic. 75. Higginson on Anæsthesia from the local application of Chloroform. 76. Snow on Chloroform in Midwifery.

MEDICAL JURISPRUDENCE AND TOXICOLOGY. pp. 530-532.

77. Bouchet on the Lunatic Asylum, Nantes. 78. Smith on Early Menstruation and Pregnancy.

MISCELLANEOUS. p. 532.

79. Dr. Spengler on Influenza and Ozone.

(For remainder of Contents, see next page.)



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## **CONTENTS OF JOURNAL. (Continued from preceding Page.)**

### **AMERICAN INTELLIGENCE.**

ORIGINAL COMMUNICATIONS. pp. 533-536.

*Clement's Case of Trismus Nascentium, illustrative of the influence of position of the patient. Houstoun's Case of Ovarian Dropsy cured by the long Abdominal Incision in 1701.*

DOMESTIC SUMMARY. pp. 536-562.

*Leidy on the Development of the Purkinjean Corpuscle in Bone. Leidy on the Arrangement of the Areolar Sheath of Muscular Fasciculi and its relation to the Tendon. Leidy on the Intermaxillary Bone in the Embryo of the Human Subject. (With two wood-cuts.) Eve on Lithotomy—117 Calculi weighing 4½ ounces, successfully removed. Van Buren's Case of Inguinal Aneurism—Compression tried without success—Ligature of the Artery. Holster on Trephining for Epilepsy. Whimire on Iodine in the Treatment of Snake-bites. Fenner on Cholera in New Orleans. Iron Rod weighing 13½ pounds driven through the Head—Recovery. By Dr. Harlow. Hamilton on Death from pressure of an enlarged Thyroid Gland. Taylor on Superfœtation and Mixed Births. Jackson's Case in which a large quantity of Chloroform was used. Hays on Local Anæsthesia in Neuralgia. Stille on Chloroform in Nephritic Colic. Army Surgeons.*

Table of Contents, Index, &c., 20 pages.









